Environment Canada Environnement Canada

Sediment Data
Atlantic Provinces

Données sur les sédiments
Provinces de l'Atlantique

1987

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1989

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DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Dartmouth, Nova Scotia.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Dartmouth (Nouvelle-Écosse), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1987 calendar year the annual suspended sediment data and a historical data summary for the sediment survey investigations conducted in Newfoundland and Labrador, New Brunswick, Nova Scotia and Prince Edward Island by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
5th Floor, Queen Square,
45 Alderney Drive,
Dartmouth, Nova Scotia.
B2Y 2N6
(902 426-5776)

or to the Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

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INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les données annuelles sur les sédiments en suspension pour 1987 et le sommaire des données chronologiques sur les sédiments, à la suite des études effectuées dans les cours d'eau de Terre-Neuve et du Labrador, du Nouveau-Brunswick, de la Nouvelle-Écosse et de l'Île-du-Prince-Édouard par la Division des relevés hydrologiques du Canada.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice Queen Square, 5e étage
45, prom. Alderney
Dartmouth (Nouvelle-Écosse)
B2Y 2N6
(902 426-5776)

ou au Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could affect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

HISTORY AND OBJECTIVES OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PUBLICATION OF SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

HISTORIQUE ET OBJECTIFS DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION DES DONNÉES SUR LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* were published in a new format wherein Canada was divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

A new edition, *Miscellaneous Sediment Data 1966 to 1983*, was published. It contains a tabulation of locations in Canada where miscellaneous data were collected but not previously published by the Water Survey of Canada. The following data are included in this one time publication: date and time of sample collection; instantaneous discharge or daily mean discharge; sampling vertical; instantaneous concentration; dissolved solids for some samples; type of sampler used; particle size distribution of suspended sediment in percent sand, silt and clay for some depth integrated samples and/or measurements, and some point integrated measurements; particle size distribution of bed load; particle size distribution of bed material; and the water temperature at time of sampling for some samples is also given where available.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*: elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des *Données sur les sédiments* a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Une édition récente intitulée *Données diverses sur les sédiments, 1966 à 1983* vient de paraître. On y présente sous forme de tableau les emplacements où des données diverses non encore publiées ont été recueillies au Canada par la Division des relevés hydrologiques. Cette première édition comprend des données telles que : la date et la durée de l'échantillonnage; le débit instantané ou débit journalier moyen; la verticale d'échantillonnage; les concentrations instantanées; les concentrations de matières solides en solution pour certains échantillons; le type d'échantillonneur employé; la granulométrie des sédiments en suspension en pourcentage de sable, de limon et d'argile, dans le cas de mesures avec intégration selon la profondeur ou d'échantillons intégrés sur toute la profondeur, et dans le cas de mesures par la méthode ponctuelle; la granulométrie du charriage; la granulométrie des matériaux du lit; la température de l'eau lors du prélèvement d'échantillons, lorsque celle-ci est connue.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-inregrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with velocities up to two metres per second.

(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler, USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler, USBMH-53, used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;

(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit qui atteint 2 m/s.

(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;

(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;

(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;

(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow panels and a representative suspended sediment sample is collected from each portion. For each panel of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow panels:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de déterminer la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 - 0.004
Silt	0.004 - 0.062
Sand	0.062 - 2.0
Gravel	2.0 - 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbol (S) on the daily mean concentrations.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 - 0.004
Limon	0.004 - 0.062
Sable	0.062 - 2.0
Gravier	2.0 - 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation du symbole (S), avec les données sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load are also given for each month of record.

   For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

   For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

   Additional descriptive information about the sediment station is also given and will indicate the following, where applicable.

   Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

   Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

   Type of Flow – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

   Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

   (a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

   (b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

   International Gauging Station – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Chaque mois les données indiquent également les débits mensuels totaux de l'eau et des sédiments.

   Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

   Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

   Des renseignements descriptifs additionnels au sujet de la station sont également présentées. On peut y apporter les précisions suivantes:

   Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

   Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

   Type de débit (Type of Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

   Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

   (a) *Manuel* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.

   (b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

   Station internationale de jaugeage (International Gauging Station) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used. The particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay, is given where available.

The Single Sampling Vertical Location is defined by many symbols, which are as follows, where applicable:

DIGITS - 5, 14, 130, etc., is the distance in metres from the initial point
WERB - Water's Edge RIGHT Bank
WELB - Water's Edge LEFT Bank
1QRB - One-quarter the distance FROM the RIGHT Bank
3QRB - Three-quarters the distance FROM the RIGHT Bank
1QLB - One-quarter the distance FROM the LEFT Bank
3QLB - Three-quarters the distance FROM the LEFT Bank
MID - MID STREAM
MULT - Composite sediment measurement

For the suspended sediment measurements, the Date; Time; Water Temperature at time of sampling; Discharge computed for each sampling panel; Concentration; Sampling Vertical; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used; and the Particle-size distribution of the Sand, Silt and Clay, in percent is given where available.

3. The table of *Split Vertical Suspended Sediment* for depth-integrating samples includes the following: Date and Time of the sample collection; Water Temperature; Instantaneous Discharge at time of sampling, (if not available the daily mean discharge is given and indicated by a symbol); Sampling Vertical; Depth of Sample (giving the depth sampled from and the depth sampled to); Concentration of Sample, in milligrams per litre, Dissolved solids, in milligrams per litre; and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur comprend: la date et l'heure de prélèvement; la température de l'eau; son débit instantané au moment de l'échantillonnage (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage en millimètres et le pourcentage des particules est donné lorsqu'il est disponible.

Le site vertical d'échantillonnage unique est défini par plusieurs symboles dont les suivants dans certains cas :

CHIFFRE - 5, 14, 130, etc., désigne la distance en mètres à partir du point initial
WERB - Bord de l'eau, rive DROITE
WELB - Bord de l'eau, rive GAUCHE
1QRB - Un quart de la distance À PARTIR de la rive DROITE
3QRB - Trois quarts de la distance À PARTIR de la rive DROITE
1QLB - Un quart de la distance À PARTIR de la rive GAUCHE
3QLB - Trois quarts de la distance À PARTIR de la rive GAUCHE
MID - MI-DÉBIT
MULT - Mesure des sédiments mixtes

Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé; et la granulométrie du sable, du limon et de l'argile, en pourcentage des particules est donnée lorsqu'elle est disponible.

3. Le tableau des *sédiments en suspension fractionnés pris à la verticale* (The Table of Split Vertical Suspended Sediment) pour les échantillons obtenus par intégration selon la profondeur comprend les éléments suivants : la date et l'heure de l'échantillonnage; la température de l'eau; le débit instantané au moment de l'échantillonnage (s'il n'est pas disponible, on donne le débit moyen quotidien et on l'indique par un symbole), la verticale d'échantillonnage; la profondeur (donner la profondeur à laquelle l'échantillon a été pris); et la profondeur à laquelle l'échantillon a été attributé la concentration des échantillons, en milligrammes par litre; la concentration des matières dissoutes, en milligrammes par litre; la distribution des sédiments de la taille de particules en pourcentage en millimètres; le pourcentage de sable, de limon et d'argile.

4. The table of *Point Integrating Particle-size of Suspended Sediment* includes the following: Date and Time of the sample collection; Water Temperature; Panel Discharge for each sampling vertical; Sampling Vertical; Depth of Sample; Concentration of Sample, in milligrams per litre; Dissolved Solids in milligrams per litre, and the Particle-size distribution in percent in millimetres and the percent Sand, Silt and Clay are also given.

5. The table of *Bed Load Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed load collected.

6. The table of *Bed Material Particle-size* includes the following: Date and Time of the sample collection; Panel Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample and the Particle-size distribution, in percent in millimetres, for each sample of bed material collected.

7. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Record Summary
   (b) Type of Sampling
   (c) Sampled Concentration, maximum and minimum
   (d) Suspended Sediment Load, maximum daily and the total, for the period, in tonnes
   (e) Summary, including mean load, the historical mean load and the standard error of the mean in percent.

(a) The *Record Summary* gives the months of record that data are available. If the complete month is on file the symbol (C) is shown, while partial months of data are indicated by the symbol (P). Months with no data on file are indicated by (-).

(b) The *Type of Sampling* indicates the type of sampling method used to collect the sediment samples during the period of operation. If the samples were collected by manual methods this is indicated by "MANUAL." If the samples were collected by a pump sampler or some other automatic method this is indicated by "AUTO." If both manual and automatic sampling methods were used this is indicated by "DUAL."

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk.

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives

4. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) comprend: la date et l'heure de prélèvement de l'échantillon, la température de l'eau, le débit de la tranche de la section pour chaque verticale d'échantillonnage, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des échantillons, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et granulométrie en millimètres et en pourcentage du sable, du limon et de l'argile.

5. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli du charriage.

6. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) comprend: la date et l'heure de prélèvement de l'échantillon, le débit de la tranche de la section, la verticale d'échantillonnage et le type d'échantillonneur employé et le pourcentage en millimètres des particules pour chaque échantillon recueilli.

7. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) Le sommaire du relevé
   (b) Le type d'échantillonnage
   (c) Les concentrations mesurées, maximum et minimum
   (d) Le débit des sédiments en suspension, maximum quotidien et le total pour la période en tonnes
   (e) Résumé, comprend le débit moyen, le débit moyen chronologique et l'erreur type de la moyenne en pourcentage.

(a) Le *sommaire du relevé* donne les mois de relevé pour lesquels les données sont disponibles. Le symbole (C) indique que les données sont disponibles pour tout le mois. Le symbole (P) indique que ces données ne sont disponibles que pour une partie du mois. Enfin, on indique par (-) les mois qui n'ont pas de données.

(b) Le *type d'échantillonnage* indique le type de méthode d'échantillonnage que l'on utilise dans le prélèvement des échantillons de sédiments pendant la période d'exploitation. Si le prélèvement des échantillons se fait par des méthodes manuelles, on indique «MANUEL». Si le prélèvement des échantillons se fait au moyen d'échantillonneur à pompe ou par quelque autre méthode automatique, on indique «AUTO». Si on utilise à la fois des méthodes d'échantillonnage manuelles et automatiques, on indique «DOUBLE».

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de releve. La valeur extrême enregistrée est indiquée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure.

(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué

the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). If more than one maximum or minimum, of the same value, occurred during the year only the date of the first occurrence is identified by the asterisk. A load which has been revised since the previous publication is marked with the symbol (R) for Revision.

(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equations:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

and

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

where SEM is the Standard Error of the Mean.

- S is the Standard Deviation of the annual mean loads.
- x is the annual Mean Load variable.
- $\bar{x}$ is the Historical Mean Load or the arithmetic mean of the annual Mean Loads.
- n is the number of years for which there is an annual Mean Load.

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the

par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). Si la valeur du maximum ou du minimum a été mesurée plus d'une fois pendant l'année, on signale, par l'astérisque, seulement la date de la première mesure. La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.

(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* % (Standard Error of the Mean), est calculée à l'aide des équations suivantes:

$$SEM = \frac{S}{\bar{x}\sqrt{n}} \times 100\%$$

et

$$S = \sqrt{\frac{\Sigma (x - \bar{x})^2}{n - 1}}$$

où SEM est l'erreur type de la moyenne.

- S est l'écart type des débits moyens annuels.
- x est la variable du débit moyen annuel.
- $\bar{x}$ est le débit moyen chronologique ou la moyenne arithmétique des débits moyens annuels.
- n est le nombre d'années où il y a un débit moyen annuel.

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe

time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures.*

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

Sediment is fragmental material which has been deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures.*

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

DEFINITION OF SYMBOLS

Symbols are located at the bottom of the data sets under the headings Time, Discharge, Concentration, and Dissolved Solids. The symbols with their definitions are listed below.

Time Symbol

E – *Estimated* – indicates estimated data. It indicates that the time of sample collection is estimated by some indirect method or comparison with other stream data.

Discharge Symbol(s)

A – *Manual Gauge* – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – *Ice Conditions* – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – *Estimated* – indicates estimated data. It indicates that the values recorded are estimated by some indirect method such as interpolation, extrapolation, comparison with other streams or by comparison with meteorological data.

H – *Daily Mean Discharge* – is the mean discharge for a particular day, usually referred to as the "daily mean discharge".

V – *Daily Mean; Manual Gauge* – is the mean discharge for a particular day and indicates that one or more manual gauge observations per day were obtained and used as the mean for the day.

W – *Daily Mean; Ice Conditions* – is the mean discharge for a particular day and indicates that the presence of ice has affected the stage-discharge relationship.

Y – *Daily Mean; Estimated* – is the mean discharge for a particular day and indicates that the value has been estimated by some indirect method.

Concentration Symbol(s)

C – *Coarse Material Present* – indicates that during the laboratory analysis coarse material (sand) was observed in the sediment sample.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DÉFINITION DES SYMBOLES

Les symboles figurent au bas des séries de données et sont traités sous les rubriques Temps, Débit, Concentration, Matières solides en solution. Ces symboles avec leurs définitions sont donnés dans la liste ci-après.

Symbole du temps :

E – *Estimative* – Indique des données estimatives, c'est-à-dire que l'heure de prélèvement de l'échantillon est évaluée de façon indirecte ou par comparaison avec d'autres données sur les cours d'eau.

Symbole(s) du débit :

A – *Turbidisonde simple* – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – *Glaces* – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – *Estimative* – Indique des données estimatives, c'est-à-dire que les valeurs enregistrées sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – *Débit journalier moyen* – Débit moyen pour une journée donnée, ordinairement appelé «débit journalier moyen».

V – *Débit journalier moyen; turbidisonde simple* – Débit moyen pour une journée donnée; indique qu'on a effectué au moins une observation par jour et qu'on s'en est servi comme moyenne pour la journée en question.

W – *Débit journalier moyen; glaces* – Débit moyen pour une journée donnée; indique que la présence de glaces a faussé la relation hauteur-débit.

Y – *Débit journalier moyen; estimative* – Débit moyen pour une journée donnée; indique que la valeur a été évaluée de façon indirecte.

Symbole(s) de la concentration :

C – *Sable grossier présent* – Indique qu'au cours de l'analyse en laboratoire on a observé du sable grossier dans un échantillon de sédiments.

F – *Sample Bottle Filled* – indicates that during the laboratory analysis it was observed that the sample bottle had been filled to capacity.

G – *Organic Material Present* – indicates that during the laboratory analysis it was observed that organic material was collected in the sample bottle.

Single Vertical Symbol(s)

K – *Sampling vertical not at the regular single vertical from LEFT bank* – indicates that a sample was collected at a location from the left bank, in a cross-section, which is not at the regular single vertical.

L – *Sediment measurement vertical not at the regular measurement cross-section from LEFT bank* – indicates that the measurement sampling verticals were established from the left bank, in a cross-section which is not the regular measurement cross-section.

M – *Sediment measurement vertical* – indicates that the sampling vertical is one of several, usually five, and represents a panel width. The instantaneous discharge represents the flow for a panel width.

X – *Sampling vertical not at the regular single vertical* – indicates that a sample was collected at a location, in a cross-section, which is not at the regular single vertical. The location of the regular single vertical is given at the bottom of the Instantaneous Suspended Sediment data.

Z – *Sediment measurement vertical not at the regular measurement cross-section* – indicates that a suspended sediment measurement was collected in a cross-section which is not the regular measurement corss-section.

Note: If no symbol is present the samples have then been collected at the regular Single Vertical.

MICROFICHE

Sediment data to 1983 are available on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

F – *Flacon d'échantillonnage rempli* – Indique qu'au cours de l'analyse en laboratoire on a observé que le flacon d'échantillonnage avait été complètement rempli.

G – *Substance organique présente* – Indique qu'au cours de l'analyse en laboratoire on a observé qu'une substance organique a été prélevée dans le flacon d'échantillonnage.

Symbole(s) de la verticale unique :

K – *Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle à partir de la rive GAUCHE* – Indique qu'un échantillon a été prélevé à un endroit à partir de la rive gauche, dans une section transversale, mais à l'extérieur de la verticale unique habituelle.

L – *Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle à partir de la rive GAUCHE* – Indique que les verticales de mesure d'échantillonnage ont été établies à partir de la rive gauche, dans un section transversale à l'extérieur de la section transversale de mesure habituelle.

M – *Verticale de mesure des sédiments* – Indique que la verticale d'échantillonnage est l'une de plusieurs verticales, en général cinq, et qu'elle représente la dimension d'une tranche. Le débit instantané représente le débit relatif à la dimension d'une tranche.

X – *Verticale d'échantillonnage à l'extérieur de la verticale unique habituelle* – Indique qu'un échantillon a été prélevé à un endroit, dans une section transversale, mais à l'extérieur de la verticale unique habituelle. L'endroit de la verticale unique habituelle est donné à la fin des données sur les sédiments en suspension instantanés.

Z – *Verticale de mesure des sédiments, à l'extérieur de la section transversale de mesure habituelle* – Indique qu'une mesure de sédiments en suspension a été prise dans une section transversale à l'extérieur de la section transversale de mesure habituelle.

Note : S'il n'y a pas de symbole, cela indique que les échantillons ont été prélevés à la verticale unique habituelle.

MICROFICHE

Les données jusqu'à 1983 sur les sédiments sont disponibles sur microfiche. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, la première et la dernière année des données ainsi que le mois et l'année de création de la fiche. La dernière image donne l'index de la fiche.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit - 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit - 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

CO-OPERATION AND ACKNOWLEDGMENTS

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RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 48 26 37 N LONG 65 03 55 W
DRAINAGE AREA: 188 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 1 520 TONNES FOR THE PERIOD MAR 01 TO DEC 31

REMARKS:

DAY	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	DAY
1	0.502 B	1	0.04	30.0 B	27 S	70.0	8.98	4	2.41	1
2	0.500 B	1	0.04	58.0 B	24 S	120	4.82	3	1.25	2
3	0.500 B	1	0.04	51.0 B	20 S	88.1	3.58	3 S	0.92	3
4	0.495 B	1	0.04	45.0 B	32 S	124	2.71	4	0.94	4
5	0.495 B	1	0.04	37.1	44 S	141	2.28	4	0.78	5
6	0.490 B	1	0.04	31.6	37 S	101	2.01	4	0.69	6
7	0.482 B	1	0.04	39.2	41 S	139	1.97	4	0.68	7
8	0.480 B	1	0.04	29.8	15 S	38.8	2.05	4	0.71	8
9	0.478 B	1	0.04	21.0	15 S	29.0	2.02	4	0.70	9
10	0.475 B	1	0.04	18.2	17 S	28.7	1.98	4	0.68	10
11	0.470 B	1	0.04	22.4	15 S	29.0	1.93	3 S	0.50	11
12	0.468 B	1	0.04	24.3	14 S	28.4	1.82	3	0.33	12
13	0.462 B	1	0.04	18.2	14	23.2	2.04	3	0.36	13
14	0.480 B	1	0.04	16.3	16	22.5	2.05	3	0.38	14
15	0.498 B	1	0.04	14.8	14	17.7	1.98	3	0.34	15
16	0.350 B	1	0.04	14.3	12	14.8	2.04	3	0.88	16
17	0.448 B	1	0.04	14.8	16	19.3	2.21	3	0.38	17
18	0.445 B	1	0.04	20.4	21	37.0	1.95	3	0.34	18
19	0.440 B	1	0.04	27.0	28 S	85.3	1.72	3	0.30	19
20	0.440 B	1	0.04	19.8	11 S	18.8	1.57	3	0.27	20
21	0.440 B	1	0.04	15.1	8 S	7.83	1.40	3	0.24	21
22	0.440 B	1	0.04	24.4	8	16.9	1.38	3	0.24	22
23	0.580 B	4	0.20	8.37	8	4.34	1.50	3	0.38	23
24	1.10 B	4	0.38	5.74	7	4.08	1.38	3	0.24	24
25	0.980 B	9	0.78	5.25	8	3.25	1.20	3	0.21	25
26	0.680 B	7	0.52	4.68	4	1.81	1.03	3	0.18	26
27	0.780 B	7	0.47	3.88	3 S	0.92	0.910	3	0.18	27
28	0.740 B	7 S	0.45	2.90	3	0.75	0.924	3	0.18	28
29	1.80 B	8 S	1.24	6.82	3 S	1.72	0.868	3	0.18	29
30	3.20 B	12 S	3.32	10.4	4 S	3.88	0.918	3	0.18	30
31	7.00 B	22 S	13.3				1.08	3 S	0.18	31
TOTAL	27.388		21.62	843.11		1 198.39	82.827		15.78	TOTAL

DAY	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	DAY
1	1.23	2	0.21	0.830	3	0.16	0.233	2	0.04	1
2	1.10	2	0.19	0.717	3	0.12	0.276	2	0.05	2
3	0.884	2	0.15	0.597	3	0.10	0.287	2	0.05	3
4	0.723	2	0.12	0.588	3	0.10	0.208	2	0.04	4
5	0.683	2	0.12	0.655	3	0.11	0.184	2	0.03	5
6	1.14	5	0.49	0.488	3	0.08	0.207	2	0.04	6
7	2.78	16 S	3.85	0.378	3	0.07	0.178	2	0.03	7
8	2.67	7 S	1.55	0.336	3	0.08	0.147	2	0.03	8
9	3.37	12 S	3.49	0.327	3	0.08	0.161	2	0.03	9
10	7.03	20 S	12.1	0.380	3	0.08	0.155	2	0.03	10
11	8.29	15 S	10.7	0.380	3	0.07	0.161	2	0.03	11
12	5.26	6 S	2.73	0.337	3	0.08	0.186	2	0.03	12
13	5.37	10	4.64	0.292	3	0.08	0.139	2	0.02	13
14	3.76	4	1.31	0.285	3	0.08	0.113 E	2	0.02	14
15	3.87	2 S	0.82	0.287	3	0.08	0.118	2	0.03	15
16	3.08	2	0.53	0.288	3	0.08	0.187	2	0.03	16
17	2.22	2	0.36	0.270	3	0.08	0.187	2	0.03	17
18	1.87	2	0.32	0.258	3	0.08	0.088 E	2	0.02	18
19	1.68	2	0.27	0.308	3	0.08	0.184	2	0.03	19
20	1.34	2	0.23	0.308	3	0.04	0.188	2	0.03	20
21	1.09	2	0.19	0.188	3	0.03	0.171	2	0.03	21
22	0.884	2	0.17	0.182	3	0.03	0.188	2	0.03	22
23	0.848	2	0.15	0.208	3	0.04	0.137	2	0.02	23
24	0.908	3	0.23	0.288	3	0.08	0.183	2	0.03	24
25	1.11	3 S	0.18	0.405	3	0.07	0.188	2	0.03	25
26	0.795	2	0.14	0.288	3	0.08	0.184	2	0.03	26
27	0.724	2	0.13	0.288	3	0.08	0.148	2	0.03	27
28	1.22	8 S	0.83	0.248	3	0.04	0.184	2	0.03	28
29	1.32	4	0.48	0.218	3	0.04	0.187	2	0.03	29
30	0.903	2	0.16	0.184	3	0.03	0.200	2	0.03	30
31				0.203	3	0.04	0.183	2	0.03	31
TOTAL	67.884		48.48	10.865		1.87	5.437		0.98	TOTAL

B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

SUSPENDED SEDIMENT FOR 1987

DAY	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAY
1	0.184	2	0.03	1.11	8	0.86	1.47	3	0.38	1
2	0.160	2	0.03	8.86	26 S	21.3	1.38	3	0.35	2
3	0.181	2	0.03	5.19	5	2.24	1.10	2	0.19	3
4	0.171	2	0.03	10.1	20 S	17.5	1.20	2 S	0.21	4
5	0.181	2	0.03	8.51	6 S	4.41	1.77	2 S	0.31	5
6	0.182	2	0.03	6.33	5	2.30	1.76	2 S	0.30	6
7	0.181	2	0.03	3.88	3	0.85	1.47	2	0.25	7
8	0.188	2	0.03	2.86	3	0.77	1.21 S	2	0.21	8
9	1.61	12 S	1.87	2.83	5 S	1.22	1.47	3	0.38	9
10	2.76	9 S	2.15	2.26	3	0.86	1.88	3	0.49	10
11	1.87	5	0.85	1.83	3	0.47	1.70	2	0.29	11
12	1.53	4	0.53	1.58	2	0.27	1.58 S	3	0.27	12
13	1.27	3	0.33	1.28	2	0.22	1.51 S	3	0.28	13
14	1.38	5 S	0.58	1.19	3	0.31	1.46 S	3	0.28	14
15	1.63	4 S	0.56	1.05	2	0.18	1.51 S	2	0.26	15
16	1.35	3	0.33	0.958	2	0.17	1.52 S	3	0.42	16
17	0.826	3	0.24	0.880	2	0.15	1.80 S	5	0.82	17
18	0.651	2	0.15	0.798	2	0.14	3.40 S	15	4.70	18
19	0.703	2	0.12	0.798	2	0.14	4.84	10	4.18	19
20	0.697	2	0.10	0.824	2	0.14	4.48	14	5.39	20
21	0.634	10 S	0.55	0.782	2	0.14	12.1	25	25.1	21
22	3.09	20 S	5.34	0.775	2	0.13	7.81	10	6.63	22
23	3.08	8 S	2.13	0.788	2	0.14	5.14	8	3.56	23
24	2.26	6	1.18	0.745	2	0.13	3.80 S	6	1.81	24
25	1.80	4	0.55	0.788	3	0.20	2.85 S	5	1.27	25
26	1.14	3	0.30	1.73	7 S	1.05	2.45 S	5	1.06	26
27	0.878	2	0.15	1.48	3	0.38	2.05 S	5	0.89	27
28	0.735	2	0.13	1.28	3 S	0.33	1.88 S	4	0.65	28
29	0.605	2	0.10	1.69	3 S	0.44	1.82 S	4	0.66	29
30	0.832	2	0.08	2.00	3	0.52	1.76 S	4	0.62	30
31				1.82	3	0.42				31
TOTAL	32.348		18.38	76.631		58.20	80.08		83.28	TOTAL

DAY	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	13.7	28	34.3							1
2	14.2	21	25.8							2
3	7.84	10	8.88							3
4	4.30 B	7	2.80							4
5	3.15 B	6	1.63							5
6	2.78 B	7	1.68							6
7	2.68 B	7	1.66							7
8	2.38 B	6	1.66							8
9	2.22 B	6	1.63							9
10	2.10 B	6	1.46							10
11	1.85	7	1.18							11
12	1.89 B	6	0.88							12
13	1.62 B	6	0.84							13
14	1.74 B	6	0.90							14
15	1.68 B	6	0.87							15
16	1.64 B	6	0.85							16
17	1.60 B	6	0.83							17
18	1.64 B	7	0.93							18
19	1.52 B	4	0.53							19
20	1.48 B	3	0.38							20
21	1.46 B	2	0.26							21
22	1.42 B	2	0.26							22
23	1.38 B	2	0.24							23
24	1.38 B	2	0.23							24
25	1.32 B	2	0.23							25
26	1.28 B	2	0.22							26
27	1.24 B	2	0.21							27
28	1.22 B	2	0.21							28
29	1.18 B	2	0.21							29
30	1.16 B	3	0.30							30
31	1.12 B	3	0.29							31
TOTAL	88.38		90.10							TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
MAR 28	18:50	0.0	0.740	B	0.0	DH48	8	59														
MAR 29	11:05	0.0	1.80	B	0.0	DH48	7															
MAR 29	18:45	0.0	1.80	B	0.0	DH48	6															
MAR 30	12:45	0.0	3.20	B	0.0	DH48	12															
MAR 31	12:25	0.0	7.00	B	0.0	DH48	20															
MAR 31	18:50	0.0	7.00	B	0.0	DH48	28															
APR 01	10:25	0.0	30.0	B	0.0	DH48	28															
APR 01	18:50	0.0	30.0	B	0.0	DH48	28															
APR 02	11:10	0.0	58.0	B	0.0	DH48	22															
APR 02	19:15	0.0	56.0	B	0.0	DH48	25															
APR 03	10:00	0.0	51.0	B	0.0	DH48	18	30														
APR 03	18:10	0.0	51.0	B	0.0	DH48	18															
APR 04	18:55	0.0	45.0	B	0.0	DH48	28															
APR 05	12:25	0.5	36.8		0.0	DH48	50															
APR 05	18:15	0.0	35.7		0.0	DH48	48															
APR 06	11:35	0.5	30.0		0.0	DH48	30															
APR 06	19:00	0.5	31.2		0.0	DH48	41															
APR 07	10:50	0.5	41.5		0.0	DH48	59															
APR 07	19:00	0.0	40.1		0.0	DH48	14															
APR 08	10:32	2.0	30.7		0.0	DH48	15															
APR 09	10:55	1.5	21.3		0.0	DH48	18	30														
APR 08	18:45	2.0	20.0		0.0	DH48	15															
APR 10	10:45	2.0	16.2		0.0	DH48	11															
APR 11	19:10	2.5	25.0		0.0	DH48	13															
APR 12	11:55	1.5	24.2		0.0	DH48	9															
APR 12	19:10	1.0	23.8		0.0	DH48	13															
APR 19	15:50	8.0	29.1		0.0	DH48	24															
APR 20	09:45	7.0	21.0		0.0	DH48	8															
APR 20	19:00	11.0	19.3		0.0	DH48	7															
APR 21	18:35	10.0	16.7		0.0	DH48	8	35														
APR 27	11:15	12.0	5.12		0.0	DH48	2															
APR 29	19:10	8.0	15.7		0.0	DH48	2															
APR 30	05:15	8.0	15.2		0.0	DH48	2															
APR 30	17:45	4.0	12.8		0.0	DH48	2															
MAY 09	18:50	10.0	5.8*		0.0	DH48	2															
MAY 11	13:45	8.0	3.08		0.0	DH48	2															
MAY 31	18:30	19.0	1.01		0.0	DH48	2															
JUN 07	12:00	16.0	3.10		0.0	DH48	16															
JUN 08	11:40	12.0	2.68		0.0	DH48	7	75														
JUN 08	19:15	13.0	4.21		0.0	DH48	17															
JUN 10	15:00	13.0	7.88		0.0	DH48	17															
JUN 11	18:25	18.0	7.80		0.0	DH48	7															
JUN 12	17:55	14.0	5.03		0.0	DH48	8															
JUN 15	13:40	15.0	4.03		0.0	DH48	2															
JUN 25	12:30	20.0	1.27		0.0	DH48	2															
JUN 28	19:25	19.0	1.80		0.0	DH48	6															
SEP 09	18:25	18.0	0.948		0.0	DH48	9															
SEP 10	10:45	18.0	1.07		0.0	DH48	9															
SEP 14	11:30	18.0	0.380		0.0	DH48	2	105														
SEP 14	17:25	17.0	0.511		0.0	DH48	4															
SEP 15	09:35	15.0	0.775		0.0	DH48	3															
SEP 21	15:15	17.0	0.211		0.0	DH48	9															
SEP 22	09:35	13.0	2.88		0.0	DH48	21															
SEP 22	18:25	15.0	3.70		0.0	DH48	10															
SEP 23	11:00	14.0	3.10		0.0	DH48	8															
OCT 02	08:00	15.0	11.8		0.0	DH48	39															
OCT 02	14:20	17.0	9.83		0.0	DH48	17															
OCT 04	15:50	13.0	12.8		0.0	DH48	18															
OCT 05	12:25	14.0	6.82		0.0	DH48	8	80														
OCT 08	11:00	12.0	2.98		0.0	DH48	5															
OCT 26	11:50	7.0	1.67		0.0	DH48	6															
OCT 26	15:15	7.0	1.04		0.0	DH48	3															
OCT 28	14:00	10.0	1.77		0.0	DH48	2															
NOV 04	18:00	8.0	1.01		0.0	DH48	2															
NOV 05	09:10	8.0	1.88		0.0	DH48	2															
NOV 05	13:00	8.5	1.88		0.0	DH48	2															

NOTE : SINGLE VERTICAL LOCATED AT 0.0 METRES FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)				MINIMUM (mg/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	--PCCCCCCCCC	MANUAL	51	APR	25		1	MAY	7	*	248	JUL	08	2 030	7.38	7.38	---
1985	CCCCCCCCCCC	MANUAL	338	JUN	7	*	1	JAN	30		372	JUN	07	* 650	3.02	5.18	41.8
1986	CCCCCCCCCCC	MANUAL	124	JUN	8		1	MAY	18		194	APR	13	2 290 *	7.70	6.03	35.0
1987	--CCCCCCCCC	MANUAL	58	APR	7		2	APR	27		141	APR	08	1 620	5.43	5.88	18.3

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 45 12 35 N LONG 67 15 45 W
DRAINAGE AREA: 115 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 671 TONNES FOR THE PERIOD APR 01 TO DEC 31

REMARKS:

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	21.6 S	73 S	136	2.03	2	0.35	1.34	2	0.23	1
2	34.6 S	66	198	2.02	2	0.35	1.15	2	0.20	2
3	31.0 S	25 S	67.0	2.01	2	0.35	1.07	2	0.18	3
4	30.0 S	12	31.1	1.88	2	0.32	0.845	2	0.15	4
5	25.2	11 S	24.0	1.77	1	0.15	1.04	2	0.18	5
6	22.4	8 S	15.5	2.80	8	2.02	1.10	2	0.19	6
7	20.2	7 S	12.2	3.37	12	3.49	1.02	2	0.18	7
8	17.0	5 S	7.34	3.18	4 S	1.10	0.995	2	0.17	8
9	13.6	5 S	5.88	3.15	3 S	0.82	1.82	5	0.84	9
10	10.3	4 S	3.98	2.98	2 S	0.51	2.78	5	1.19	10
11	8.31	4 S	2.87	2.51	2	0.43	3.17	8 S	2.19	11
12	7.16	3 S	1.85	2.26	2	0.39	3.55	15	4.60	12
13	6.27	2 S	1.08	2.06	1	0.15	3.52	5 S	1.52	13
14	4.98	2 S	0.86	1.87	1 S	0.15	2.88	2	0.50	14
15	3.77	2 S	0.65	1.95	3	0.51	2.30	2	0.40	15
16	2.24	1 S	0.19	1.78	1	0.15	1.78	1	0.15	16
17	2.35	1	0.20	1.54	1	0.13	1.50	1	0.13	17
18	2.51	1	0.22	1.38	1	0.12	1.19	1	0.10	18
19	2.81	1	0.23	1.15	1	0.10	0.978	1	0.08	19
20	2.62	1	0.22	0.856	1	0.07	0.827	1	0.07	20
21	2.37	1	0.20	0.833	1	0.08	0.856	1	0.08	21
22	2.27	1	0.20	0.802	1	0.04	0.887	1	0.08	22
23	2.10	1	0.18	0.883	4	0.34	0.738	1	0.08	23
24	1.98	1	0.17	0.830	1	0.08	0.786	2	0.14	24
25	1.82	1	0.16	0.852	1	0.07	1.17	3	0.30	25
26	1.65	1	0.14	0.787	1	0.07	0.881	2	0.17	26
27	1.46	1	0.13	0.868	1	0.05	0.888	2	0.18	27
28	1.28	1	0.11	0.805	1	0.05	2.55	6	1.32	28
29	1.82	5	1.00	0.868	1	0.05	2.12	2	0.37	29
30	3.12	2	0.37	0.858	3	0.17	2.04	2	0.35	30
31				0.788	2	0.14				31
TOTAL	286.80		811.44	50.259		12.82	47.370		15.24	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.81	2	0.33	0.118	1	0.01	0.031 E	1	0	1
2	1.66	2	0.27	0.118	1	0.01	0.039 E	1	0	2
3	1.28	1	0.11	0.362	3	0.09	0.030 E	1	0	3
4	1.05	1	0.09	0.574	1	0.05	0.026 E	1	0	4
5	0.878	1	0.08	0.366	1	0.03	0.023 E	1	0	5
6	0.724	1	0.08	0.278	1	0.02	0.023 E	1	0	6
7	0.616	1	0.05	0.257	1	0.02	0.024 E	1	0	7
8	0.522	1	0.05	0.258	1	0.02	0.021 E	1	0	8
9	0.462	1	0.04	0.258	1	0.02	0.072	3	0.02	9
10	0.421	1	0.04	0.238	1	0.02	0.070	2	0.01	10
11	0.382	1	0.03	0.232	1	0.02	0.062	1	0.01	11
12	0.364	1	0.03	0.211	1	0.02	0.064	1	0.01	12
13	0.350	1	0.03	0.191	1	0.02	0.068	1	0.01	13
14	0.333	1	0.03	0.168	1	0.01	0.185	3	0.05	14
15	0.333	1	0.03	0.148	1	0.01	0.187	1 S	0.02	15
16	0.307	1	0.03	0.134	1	0.01	0.142	1	0.01	16
17	0.288	1	0.02	0.113	1	0.01	0.154	1	0.01	17
18	0.239	1	0.02	0.103	1	0.01	0.101	1	0.01	18
19	0.208	1	0.02	0.044	1	0	0.098	1	0.01	19
20	0.181	1	0.02	0.088	1	0.01	0.142	5	0.08	20
21	0.197	1	0.02	0.088	1	0.01	1.32	11	1.18	21
22	0.188	1	0.02	0.081	1	0.01	1.18	3	0.31	22
23	0.188	1	0.01	0.087	1	0.01	1.01	2	0.17	23
24	0.153	1	0.01	0.062	1	0.01	1.28	3	0.33	24
25	0.152	1	0.01	0.048	1	0	1.39	2	0.24	25
26	0.158	1	0.01	0.038	1	0	1.31	1	0.11	26
27	0.172	1	0.01	0.033 E	1	0	1.11	1	0.10	27
28	0.140	1	0.01	0.028 E	1	0	0.895	1	0.08	28
29	0.113	1	0.01	0.032 E	1	0	0.785	1	0.07	29
30	0.108	1	0.01	0.040	1	0	0.777	3	0.20	30
31	0.118	1	0.01	0.033 E	1	0				31
TOTAL	14.051		1.51	4.735		0.45	12.555		3.00	TOTAL

S - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR008

SUSPENDED SEDIMENT FOR 1987

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.02	3	0.25	1.50	2	0.28	32.3	23	44.3	1
2	0.980	2	0.17	1.42	2	0.25	30.0	16	27.6	2
3	0.835	2	0.18	1.27	1	0.11	19.5	12 E	20.2	3
4	1.27	5	0.55	1.17	1	0.10	13.5	3	3.50	4
5	1.48	2	0.25	1.07	1	0.09	8.87	3	2.30	5
6	1.44	2	0.25	1.01	1	0.08	8.97	2	1.03	6
7	1.40	2	0.24	0.907	1	0.08	4.44	2	0.77	7
8	2.31	11	2.20	0.819	1	0.07	3.52	1	0.30	8
9	2.26	3	0.58	0.808	1	0.07	3.06	1	0.28	9
10	2.01	2	0.35	0.795	1	0.07	2.87	1	0.25	10
11	1.84	2	0.32	0.751	1	0.08	2.89	1	0.28	11
12	1.58	1	0.14	0.670 B	1	0.08	2.85 B	1	0.23	12
13	1.32	1	0.11	0.730 B	1	0.07	2.45 B	1	0.21	13
14	1.14	1	0.10	0.695 B	1	0.08	2.20 B	1	0.20	14
15	1.01	1	0.09	0.705 B	1	0.08	2.20 B	1	0.19	15
16	0.910	1	0.08	0.735 B	1	0.08	2.00 B	10	1.73	16
17	0.822	1	0.07	0.784	1	0.07	1.80 B	5	0.82	17
18	0.741	1	0.08	0.887	4	0.33	1.80 B	3	0.47	18
19	0.697	1	0.08	1.05	4	0.38	1.71 B	4	0.59	19
20	0.673	1	0.09	1.27	5	0.58	1.82 B	4	0.58	20
21	0.653	1	0.08	1.85	6	1.01	1.56 B	3	0.41	21
22	0.650	1	0.08	1.68 B	3	0.49	1.50 B	3	0.39	22
23	0.644	1	0.08	1.73 B	2	0.31	1.41 B	3	0.37	23
24	0.801	1	0.08	1.85	2	0.28	1.36 B	3	0.35	24
25	0.648	2	0.11	1.81	2	0.26	1.32 B	2	0.23	25
26	0.710	2	0.12	1.44 B	2	0.26	1.25 B	2	0.22	26
27	0.692	2	0.12	1.38 B	2	0.24	1.21 B	2	0.21	27
28	0.815	5	0.42	1.28 B	2	0.22	1.18 B	2	0.20	28
29	1.31	7	0.79	1.30 B	2	0.21	1.12 B	2	0.19	29
30	1.38	3	0.36	1.70 B	11	1.62	1.08 B	2	0.18	30
31	1.80	3	0.39				1.03 B	2	0.18	31
TOTAL	38.481		8.84	34.988		7.88	139.51		198.70	TOTAL

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 01	08:45	0.5	35.7	7.5	DH48	74															
APR 03	14:30	2.0	28.8	7.5	DH48	32	72														
APR 05	12:00	3.0	24.6	7.5	DH48	9															
APR 06	16:00	3.0	21.2	7.5	DH48	8															
APR 06	17:00	3.0	21.2	7.5	DH48	8															
APR 07	10:00	3.0	20.2	7.5	DH48	7															
APR 07	14:00	3.0	19.8	7.5	DH48	7															
APR 08	17:00	2.0	18.4	7.5	DH48	4															
APR 09	09:15	3.0	14.0	7.5	DH48	5															
APR 09	12:00	3.0	13.3	7.5	DH48	5															
APR 09	17:00	3.0	13.0	7.5	DH48	5															
APR 10	12:00	4.0	10.1	7.5	DH48	4	41														
APR 10	17:00	7.0	8.55	7.5	DH48	4															
APR 11	09:00	2.0	8.46	7.5	DH48	4															
APR 11	18:00	7.0	7.67	7.5	DH48	4															
APR 12	09:00	2.0	7.20	7.5	DH48	3															
APR 12	16:00	7.0	6.75	7.5	DH48	3															
APR 13	12:00	8.0	6.10	7.5	DH48	3															
APR 13	17:00	8.0	5.88	7.5	DH48	3															
APR 14	12:30	8.0	5.38	7.5	DH48	2															
APR 15	12:30	7.0	3.67	7.5	DH48	2															
APR 18	13:30	8.0	3.17	7.5	DH48	2															
MAY 08	17:30	8.0	3.08	7.5	DH48	1	33														
MAY 08	18:15	18.5	3.23	7.5	DH48	3															
MAY 10	10:00	10.0	3.08	7.5	DH48	3															
JUN 11	08:50	13.0	3.01	7.5	DH48	2															
JUN 11	12:00	18.5	3.23	7.5	DH48	4															
JUN 13	12:30	18.0	3.88	7.5	DH48	7															
SEP 15	09:05	18.0	0.253	7.5	DH48	4															
DEC 01	17:15	2.0	27.6	7.5	DH48	1															
DEC 03	13:30	0.5	19.3	7.5	DH48	8															

NOTE : SINGLE VERTICAL LOCATED AT 7.5 METRES FOR 1987

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)
1984	---CCCCCCCCP	MANUAL	48 APR 8	1 APR 14 *	84.4 APR 05	628
1985	---CCCCCCCC-	MANUAL	128 MAY 7 *	1 APR 12	37.3 MAY 22	321
1986	---CCCCCCCCC	MANUAL	33 AUG 27	1 APR 14	38.7 APR 01	333
1987	---CCCCCCCCC	MANUAL	74 APR 1	1 APR 18	198 APR 02 *	871 *

SUMMARY :

MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
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---	---	---
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MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

P - PARTIAL MONTH

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 47 14 48 N LONG 67 55 16 W
DRAINAGE AREA: 338 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 3 800 TONNES FOR THE PERIOD APR 01 TO NOV 13

REMARKS:

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	52.8	176 S	804	5.60	7	3.33	2.38	7	1.44	1
2	86.6	84 S	487	5.31	3	1.38	2.41	4 S	0.83	2
3	49.8	76 S	327	4.82	3	1.26	1.90	4	0.66	3
4	34.9	71 S	214	4.65	2	0.79	1.70	4	0.59	4
5	32.4	69 S	185	4.24	1 S	0.37	2.01	14	2.78	5
6	29.8	65 S	142	3.81	2	0.68	8.03	70 S	48.6	6
7	33.0	58 S	160	5.69	15 S	8.16	6.16	25	13.8	7
8	31.5	34 S	82.5	7.72	7	4.87	3.80	7	2.30	8
9	25.2	23 S	50.1	5.38	5	2.32	3.02	3	0.78	9
10	19.7	20 S	34.0	4.15	4	1.43	3.92	9 S	3.05	10
11	16.2	15 S	33.8	3.64	4	1.22	3.81	3	0.99	11
12	16.9	13 S	18.0	3.65	4	1.26	2.80	3	0.73	12
13	14.5	11 S	13.8	4.11	12 S	4.28	2.54	3	0.66	13
14	12.4	10 S	10.7	3.38	5	1.45	2.31	3	0.60	14
15	11.2	9 S	8.71	3.22	4	1.11	2.84	7	1.84	15
16	10.5	8	8.16	4.09	13	4.59	3.12	9	1.62	16
17	10.2	8	7.93	3.58	8	2.78	2.23	4	0.77	17
18	10.1	8	7.88	3.13	8	2.43	1.71	4	0.59	18
19	10.4	8	8.09	2.68	8 S	2.24	1.68	4	0.55	19
20	9.21	10	7.98	2.78	6	1.90	2.50	5	1.30	20
21	8.18	9	8.36	2.87	8	1.78	1.93	4	0.67	21
22	7.48	7	4.61	2.63	8	1.75	1.82	4	0.58	22
23	8.88	7	4.15	2.48	8	1.71	1.40	4	0.48	23
24	8.30	8 S	3.27	2.26	8	1.78	1.33	3	0.34	24
25	8.48	7	3.80	2.08	8 S	1.42	1.33	3	0.34	25
26	5.47	5 S	2.38	1.81	8	1.32	1.38	3	0.38	26
27	4.88	4	1.88	1.80	8	1.24	1.24	3	0.32	27
28	4.44	3	1.15	1.81	7	0.97	8.57	77 S	83.7	28
29	4.20	3	1.09	1.81	7	0.81	14.0	80	72.8	29
30	4.83	2	0.80	1.46	5	1.00	7.89	21 S	14.5	30
31				1.86	9 S	1.44				31
TOTAL	550.15		2 630.67	107.80		83.82	103.28		238.14	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	7.08	14	8.58	3.24	6	1.68	1.81	9	1.25	1
2	4.88	8	2.10	2.80	6	1.45	1.71	12 S	1.77	2
3	3.89	3	0.88	2.86	23	5.93	1.72	12	1.78	3
4	3.28	3	0.85	8.81	101 S	88.5	1.82	9	1.26	4
5	4.41	15 S	5.72	8.01	37 S	28.8	1.64	8	0.80	5
6	4.18	7	2.82	5.82	7	3.52	1.39	6	0.72	6
7	3.01	8	1.88	3.74	4	1.38	1.26	6	0.86	7
8	2.44	6	1.26	2.98	4	1.02	1.23	4	0.43	8
9	2.04	6	1.06	4.15	37 S	13.3	1.68	4	0.55	9
10	2.42	14	2.83	4.07	26 S	8.14	8.89	42 S	20.8	10
11	2.33	6	1.81	3.81	18 S	5.93	8.04	16 S	9.39	11
12	2.26	11 S	2.17	5.85	46	23.1	4.36	8	2.26	12
13	2.18	13	2.48	4.05	18	6.30	3.31	6	1.63	13
14	2.00	8 S	1.66	3.09	10	2.84	8.17	32 S	14.3	14
15	2.07	8 S	1.43	2.84	5	1.10	9.33	72	58.0	15
16	2.14	8	1.66	2.98	15	3.88	6.91	33	18.8	16
17	1.78	6	0.81	4.68	25 S	10.5	4.18	14 S	6.07	17
18	1.68	5	0.67	3.78	3	0.97	3.37	10	2.91	18
19	1.48	5	0.64	2.83	3	0.73	2.87	8	1.98	19
20	1.36	5	0.60	3.08	10	2.84	2.38	6	1.66	20
21	1.32	4	0.46	4.82	21	8.75	2.38	6	1.66	21
22	1.19	4	0.41	3.86	4	1.23	6.10	38	15.7	22
23	1.21	3	0.31	6.82	26 S	14.1	5.80	28 S	14.0	23
24	2.42	13 S	2.72	6.28	22	10.00	4.80	19 S	7.85	24
25	10.0	104 S	89.9	3.84	16	5.03	3.67	16	5.07	25
26	8.31	50	27.3	3.16	14	3.82	3.11	14	3.78	26
27	4.01	20	6.93	2.89	12	2.78	2.84	12	2.84	27
28	3.67	14 S	4.32	2.36	10	2.04	2.83	8	2.06	28
29	2.67	8	2.23	2.02	10	1.75	2.37	9	1.84	29
30	2.36	12	2.44	1.86	9 S	1.44	2.30	6	1.18	30
31	3.42	16	4.73	1.70	9 S	1.32				31
TOTAL	85.25		182.98	122.48		282.88	100.90		200.38	TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

SUSPENDED SEDIMENT FOR 1987

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	8.88	31	18.8	4.68						
2	7.10	10	8.13	4.48	3	1.27				1
3	4.88	5	2.14	4.03	3	1.16				2
4	4.47	5	1.93	4.44 A	3	1.04				3
5	8.29	28 S	20.1	10.8 A	2	0.77				4
6	6.87	9	5.34	11.0	27 S	25.2				5
7	5.08	6	2.84	7.52	84	80.8				6
8	8.22	22	11.8	5.88	31	20.1				7
9	8.30	38	17.7	5.47	15	7.37				8
10	6.22	14	7.52	4.88	6	2.88				9
11	5.12	11	4.87	4.48	3	1.26				10
12	4.50	8	3.50	4.32 S	2	0.77				11
13	4.02	12 S	4.17	4.05 S	2	0.78				12
14	3.58	10	3.08	3.85 S	3 S	1.05				13
15	3.36	10	3.90	3.85 S						14
16	3.19	9	2.48	3.40 S						15
17	3.06	8	2.12	3.30 S						16
18	3.06	8	1.88	3.70 S						17
19	3.13	4	1.06	5.19						18
20	3.23	4	1.12	4.34						19
21	3.09	4	1.07	4.18						20
22	3.18	5	1.37	3.85 S						21
23	3.27	5	1.41	3.70 S						22
24	3.31	5	1.43	3.85 S						23
25	4.15 A	23 S	8.26	3.69						24
26	9.20 A	48	38.6	3.62						25
27	8.90	20	11.9	3.70 S						26
28	6.28	7	3.18	4.10 S						27
29	6.06	11 S	5.74	5.34						28
30	8.47	3	1.88	5.62						29
31	6.69	3 S	1.66							30
										31
TOTAL	187.08		194.81	145.49		124.38				TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

GRANDE RIVIERE AT VIOLETTE BRIDGE - STATION NO. 01AF007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 01	12:30	1.0	50.1	5.0	D48	213	74														
APR 01	14:30	1.0	51.7	5.0	D48	182															
APR 02	08:45	1.0	88.4	5.0	D48	82															
APR 02	11:05	1.0	88.4	5.0	D48	78															
APR 02	14:10	1.0	88.7	5.0	D48	77															
APR 02	17:30	1.0	88.1	5.0	D48	78															
APR 03	08:15	1.0	90.2	5.0	D48	68															
APR 03	11:15	1.0	97.5	5.0	D48	80															
APR 03	13:50	2.0	44.0	5.0	D48	70															
APR 04	08:40	1.0	34.5	5.0	D48	61															
APR 04	18:25	4.0	32.1	5.0	D48	58															
APR 05	10:00	1.0	33.7	5.0	D48	59															
APR 05	18:10	2.5	31.8	5.0	D48	48															
APR 06	10:00	1.5	30.1	5.0	D48	48															
APR 06	13:50	2.0	29.7	5.0	D48	75															
APR 07	10:40	1.0	32.8	5.0	D48	63	68														
APR 07	13:40	1.0	33.8	5.0	D48	60															
APR 08	09:45	1.0	32.7	5.0	D48	35															
APR 08	14:00	0.5	31.7	5.0	D48	31															
APR 09	10:10	0.5	28.8	5.0	D48	24															
APR 10	13:00	2.0	18.7	5.0	D48	20															
APR 11	08:22	5.0	17.1	5.0	D48	18															
APR 12	17:55	5.0	16.9	5.0	D48	13															
APR 13	11:20	2.0	14.9	5.0	D48	12															
APR 14	10:40	1.5	12.1	5.0	D48	10															
APR 22	09:10	7.0	7.08	5.0	D48	8															
APR 24	13:50	7.0	5.72	5.0	D48	6															
APR 30	10:20	2.0	3.90	5.0	D48	2															
MAY 05	13:15	9.0	3.57	5.0	D48	2															
MAY 07	09:45	10.0	5.37	5.0	D48	16															
MAY 07	18:00	9.0	5.84	5.0	D48	16															
MAY 13	14:00	10.0	3.53	5.0	D48	17															
MAY 18	13:15	8.0	2.10	5.0	D48	8															
MAY 25	14:15	13.0	1.88	5.0	D48	8															
MAY 31	13:00	15.0	1.44	5.0	D48	10															
JUN 02	12:20	16.0	2.63	5.0	D48	4															
JUN 08	09:15	12.0	8.24	5.0	D48	83															
JUN 10	10:50	11.0	4.08	5.0	D48	7															
JUN 28	11:35	15.0	5.77	5.0	D48	70															
JUN 30	08:25	17.0	8.21	5.0	D48	18															
JUL 08	19:10	16.0	5.38	5.0	D48	20	98														
JUL 12	17:40	23.0	2.34	5.0	D48	17															
JUL 14	18:10	22.0	2.08	5.0	D48	9															
JUL 15	18:55	21.0	2.22	5.0	D48	9															
JUL 24	18:55	17.0	1.88	5.0	D48	19															
JUL 25	15:50	18.0	12.7	5.0	D48	117															
JUL 28	19:05	16.0	3.83	5.0	D48	13															
AUG 04	18:50	12.0	10.3	5.0	D48	88															
AUG 05	17:00	17.0	9.30	5.0	D48	20															
AUG 09	18:40	19.0	5.16	5.0	D48	28															
AUG 10	16:30	20.0	3.70	5.0	D48	22	98														
AUG 11	17:50	17.0	3.74	5.0	D48	18															
AUG 17	18:25	25.0	4.88	5.0	D48	10															
AUG 23	09:30	14.0	5.37	5.0	D48	12															
AUG 30	08:00	16.0	1.78	5.0	D48	21															
AUG 31	13:00	16.0	1.76	5.0	D48	8															
SEP 02	19:00	13.5	1.83	5.0	D48	18															
SEP 10	11:00	12.0	5.72	5.0	D48	47															
SEP 11	09:45	12.0	6.08	5.0	D48	18															
SEP 14	13:40	12.0	4.12	5.0	D48	19															
SEP 17	11:30	10.0	4.10	5.0	D48	12															
SEP 23	13:45	9.5	5.55	5.0	D48	28															
SEP 24	13:20	10.0	5.70	5.0	D48	19															
OCT 05	13:45	8.5	9.01	5.0	D48	38															
OCT 13	15:10	4.0	3.89	5.0	D48	13															
OCT 25	15:30	5.0	3.24	5.0	D48	20															
OCT 29	12:15	5.0	6.25	5.0	D48	8															
OCT 31	14:30	4.0	5.23	5.0	D48	3															
NOV 06	12:20	2.0	10.8	5.0	D48	10															
NOV 13	13:00	1.0	4.40	5.0	D48	3															

NOTE : SINGLE VERTICAL LOCATED AT 18 METRES FOR 1987

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)				MINIMUM (mg/L)				SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	---CCCCCCC--	MANUAL	137	APR	20		3	OCT	23		825	MAY	02	7 810 *	---	---	---
1985	---CCCCCCCP-	MANUAL	232	APR	22		1	SEP	11 *		354	APR	28	4 880	---	---	---
1986	---PCCCCCCP-	MANUAL	342	APR	22 *		1	SEP	28		774	APR	22	5 890	---	---	---
1987	---CCCCCCCP-	MANUAL	213	APR	1		2	APR	30		804	APR	01 *	3 800	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 45 42 07 N LONG 65 35 05 W
DRAINAGE AREA: 1 100 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 19 800 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	7.80 B	2	1.37	3.52 B	2	0.81	3.21 B	1	0.28	1
2	8.50 B	2	1.47	3.42 B	2	0.80	3.21 B	1	0.28	2
3	7.80 B	2	1.31	3.37 B	2	0.68	3.20 B	1	0.28	3
4	7.20 B	3	1.87	3.35 B	2	0.68	3.23 B	1 S	0.28	4
5	8.98 B	2 S	1.20	3.30 B	2	0.57	3.30 B	1	0.28	5
6	8.98 B	1	0.87	3.28 B	2	0.57	3.30 B	1	0.29	6
7	7.10 B	2	1.23	3.28 B	2	0.57	3.40 B	1	0.29	7
8	8.20 B	3	2.13	3.28 B	2	0.57	3.62 B	1	0.30	8
9	7.80 B	2	1.37	3.28 B	2	0.57	3.82 B	1	0.31	9
10	7.10 B	2	1.23	3.24 B	2	0.56	3.88 B	1	0.32	10
11	8.60 B	3	1.71	3.20 B	2	0.55	3.88 B	1	0.32	11
12	8.30 B	3	1.63	3.20 B	2	0.55	3.85 B	1	0.32	12
13	8.98 B	2	1.03	3.20 B	2	0.55	3.82 B	1	0.31	13
14	8.80 B	2	0.97	3.20 B	2	0.55	3.80 B	1	0.31	14
15	8.40 B	2	0.83	3.18 B	2	0.55	3.80 B	1	0.31	15
16	8.15 B	2	0.88	3.18 B	2	0.55	3.88 B	1	0.31	16
17	4.85 B	3	0.84	3.18 B	2	0.55	3.85 B	1	0.31	17
18	4.85 B	3	0.80	3.18 B	2	0.55	3.84 B	2	0.61	18
19	4.45 B	3	0.77	3.18 B	2	0.55	3.70 B	3	0.86	19
20	4.25 B	3	0.73	3.18 B	2	0.55	4.60 B	4	1.58	20
21	4.00 B	3	0.88	3.18 B	2	0.55	6.00 B	8	3.11	21
22	3.90 B	3	0.87	3.18 B	2	0.55	8.80 B	7	5.32	22
23	4.10 B	2	0.71	3.20 B	2	0.55	11.8 B	7	7.14	23
24	4.30 B	4	1.48	3.20 B	2	0.55	10.8 B	10	8.33	24
25	4.20 B	3	1.08	3.18 B	2	0.55	8.20 B	14	11.1	25
26	4.10 B	2	0.71	3.20 B	2	0.55	8.20 B	20	14.2	26
27	4.00 B	2	0.68	3.20 B	2	0.55	7.80 B	42	27.8	27
28	3.85 B	2	0.67	3.20 B	2	0.55	20.0 B	37	63.9	28
29	3.75 B	2	0.65				40.0 B	38	124	29
30	3.88 B	2	0.84				54.0 B	48	354	30
31	3.80 B	2	0.82				100 B	82	838	31
TOTAL	171.85		32.68	80.81		15.67	387.00		1 083.93	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	330 B	93	1 770	46.8	44	173				
2	310	82 S	1 390	35.8	38	112	21.8	44	82.1	1
3	183	38	834	30.8	33	87.2	18.1	31	27.4	2
4	170	41	802	28.0	33	79.8	10.2	13	11.8	3
5	168	38	809	28.7	33	73.3	8.82	10	7.65	4
6	139	42	804	27.4	35	82.8	8.33	10	7.20	5
7	144	72 S	898	30.8	45	120	13.2	22	25.1	6
8	128	88 S	810	27.3	35	82.8	28.0	80	108	7
9	103	43	383	23.4	23	46.5	18.1	23	36.8	8
10	86.8	38	289	21.0	14 S	26.4	15.5	24	32.1	9
11	82.2	46 S	320	18.8	11 S	18.0	20.3	39 S	98.2	10
12	82.4	53	377	18.4	14	22.3	32.5	49 S	138	11
13	78.3	50	328	20.8	13 S	23.4	23.8	30 S	61.2	12
14	88.2	48	376	17.3	8	12.0	24.8	38	76.3	13
15	81.0	48	342	15.8	7	8.43	20.7	29	51.8	14
16	88.8	42 S	308	18.8	34	57.3	18.4	28	44.8	15
17	84.4	40	188	17.0	18	23.8	18.7	27	38.8	16
18	88.8	44	210	14.8	10	12.8	13.2	24	27.4	17
19	80.3	48	240	13.8	8	10.7	12.8	28	38.8	18
20	88.4	44	332	12.8	8	8.71	11.0	21	20.0	19
21	86.1	43	308	11.8	7	7.14	14.1	30	36.8	20
22	85.0	44	309	11.2	8	8.81	11.8	24	23.8	21
23	80.1	42	182	14.8	17	21.4	8.84	23	18.2	22
24	44.8	41	158	13.8	8	9.81	8.59	22	16.3	23
25	41.0	40	142	11.8	6	8.14	8.20	22	15.8	24
26	38.0	38	118	10.8	4	3.86	8.78	25	18.9	25
27	31.1	35	84.0	8.48	4	3.28	7.87	21	13.8	26
28	27.1	31	72.8	8.88	3	2.33	7.13	20	12.3	27
29	41.2	64	182	8.17	4	3.17	11.4	34	33.6	28
30	87.4	88	332	8.65	4	3.95	12.1	35	36.8	29
31				11.8	17	17.3	8.35	26	18.8	30
										31
TOTAL	2 739.1		11 884.8	586.28		1 183.43	443.18		1 188.06	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1987

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	7.03	24	14.6	4.30 E	19	7.06	1.76	11	1.87	1
2	6.86	22	13.6	5.10 E	31	13.7	1.76	9	1.36	2
3	6.83	22	11.1	4.30 E	18	6.67	1.76	9	1.36	3
4	5.51	21	10.00	4.63 E	19 S	7.44	1.86	9	1.26	4
5	5.42	20	9.37	3.90 E	19 S	6.34	1.81	9 S	1.35	5
6	5.30	20	9.16	3.86 E	17	5.21	1.81	9	1.25	6
7	5.10	20 S	8.81	3.40 E	14	4.11	1.84	6	1.13	7
8	4.80	19	7.88	3.38 E	12	3.47	1.67	6	1.08	8
9	4.62	18	7.18	3.46 E	13	3.88	2.87	15 S	3.33	9
10	4.43	18	6.88	3.18 E	8 S	1.37	9.06	22	17.2	10
11	4.28	18	6.83	3.10 E	3	0.80	5.17	8	3.57	11
12	4.33	16	5.61	3.20 E	2	0.83	3.51	3 S	0.81	12
13	4.38	13	4.92	3.00 E	3	0.78	2.87	2 S	0.50	13
14	4.31	10	3.72	2.70 E	3	0.70	5.83	15 S	7.30	14
15	4.18	7 S	2.83	2.40 E	3	0.82	11.8	20 S	20.4	15
16	4.37	6	3.02	2.90 E	8	1.80	5.45	5 S	2.35	16
17	4.07	6	2.81	3.32 E	45	12.9	4.63	5 S	1.88	17
18	3.77	7	2.28	2.68 E	23	5.72	4.27	4	1.48	18
19	3.68	7	2.17	1.83 A	20	3.34	3.19	3	0.83	19
20	3.37	7	1.98	1.87	19	3.07	2.89	3 S	0.78	20
21	3.11	6	2.15	1.82	19 S	2.98	5.39	15 S	8.70	21
22	3.10	6	2.41	1.86	10 S	1.80	24.8	47	101	22
23	3.30	10 S	2.85	1.85	11	1.85	21.0	15 S	27.2	23
24	3.61	11	3.82	1.87	11	1.78	13.4	6 S	9.28	24
25	3.85	9	2.84	1.76	12	1.81	8.26	6	4.28	25
26	3.38	5	1.46	1.73	12 S	1.78	5.88	17 S	8.65	26
27	4.30	2 S	0.74	1.73	8	1.20	4.83	15 S	8.66	27
28	4.14 A	2 S	0.72	1.71	7 S	1.03	4.18	2 S	0.72	28
29	3.80 E	2	0.66	1.74	6	0.90	3.74	3 S	0.87	29
30	3.63 E	2	0.63	1.83	7	1.11	3.40	9 S	2.84	30
31	3.64 E	2	0.63	1.92	13 S	2.18				31
TOTAL	138.00		151.18	85.85		107.52	170.23		241.10	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	5.37	12 S	5.87	12.1	3 S	3.14	74.7	88	568	1
2	44.2	84 S	306	10.3	3 S	1.78	87.1	58	438	2
3	35.7	38 S	84.4	9.36	2 S	1.82	57.3	44	218	3
4	30.4	9 S	15.9	9.48	2	1.84	42.3	41	149	4
5	21.4	14 S	25.8	12.4	6	6.43	34.9	38	115	5
6	15.5	4 S	5.36	13.1	9	10.2	31.1	38	98.7	6
7	12.0	5 S	5.16	10.7	5	4.82	27.6	35	83.5	7
8	11.8	5 S	6.17	8.40	4	2.88	30.5 B	33	88.4	8
9	16.2	10 S	15.7	8.44	7	5.71	22.6	32	82.5	9
10	14.1	2 S	3.44	13.3	14	18.1	21.5	28	82.0	10
11	11.1	2 S	1.82	10.4	6	5.38	20.6	25	44.5	11
12	9.85	2 S	1.87	9.89	6	5.02	18.3	24	40.0	12
13	8.78	2 S	1.51	10.0	6	5.18	16.0 B	24	33.2	13
14	8.07	3 S	2.08	10.0	4	3.48	14.6 B	23	28.4	14
15	7.44	3 S	1.83	13.0	4	4.49	13.3 B	22	25.3	15
16	7.02	2 S	1.21	11.3	4	3.81	12.6 B	21	23.2	16
17	6.52	2 S	1.13	9.25	3	2.60	12.0 B	21	21.8	17
18	6.17	1 S	0.53	14.8	11	14.1	11.3 B	20	19.5	18
19	6.41	2 S	1.11	20.0	38	62.2	11.0 B	20	19.0	19
20	6.19	2 S	1.07	18.1	27	42.2	10.7 B	19	17.6	20
21	5.78	1 S	0.50	51.7	70	313	10.3 B	19	16.9	21
22	5.70	1 S	0.49	36.2	48	150	10.0 B	18	15.5	22
23	5.38	2 S	0.83	28.3	38	88.6	9.80 B	18	13.3	23
24	5.02	2 S	0.87	22.6	32	62.5	9.40 B	18	13.0	24
25	5.07	4 S	1.75	22.3	30	57.8	9.10 B	18	12.5	25
26	5.57	15 S	11.6	20.1	28	48.2	8.80 B	18	12.2	26
27	7.36	5 S	3.82	18.0	28	40.4	8.50 B	15	11.0	27
28	8.21	10 S	8.37	15.8	25	34.3	8.30 B	14	10.0	28
29	15.5	10 S	14.3	14.8	25	31.5	8.00 B	14	9.86	29
30	18.3	3 S	3.32	15.4	24	31.9	7.80 B	14	9.43	30
31	14.2	3	3.88				7.80 B	11	7.32	31
TOTAL	388.50		433.42	476.32		1 057.69	656.70		2 243.53	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 05	11:45	0.0	6.86 B	29.9	DH48	2															
MAR 04	15:00	0.0	3.23 B	29.9	DH48	1															
APR 02	17:57	1.0	6.81	29.9	DH48	42															
APR 07	09:45	5.0	3.49	29.9	DH48	76															
APR 07	15:31	3.0	3.36	29.9	DH48	70															
APR 08	13:22	3.0	2.89	29.9	DH48	56															
APR 11	09:10	5.0	2.03	29.9	DH48	38															
APR 16	17:38	8.0	1.41	29.9	DH48	41															
MAY 10	23:21	8.0	18.7	29.9	DH48	10															
MAY 11	23:11	11.0	17.1	29.9	DH48	13															
MAY 13	10:30	11.0	20.1	29.9	DH48	12															
JUN 10	14:00	13.0	32.2	29.9	DH48	38															
JUN 11	12:30	12.0	38.0	29.9	DH48	54															
JUN 11	17:27	13.0	34.8	29.9	DH48	37															
JUN 12	14:30	14.0	33.8	29.9	DH48	28															
JUL 07	12:45	22.0	5.31	29.9	DH48	20															
JUL 15	13:15	21.0	4.37	29.9	DH48	07															
JUL 23	13:10	22.0	3.17	29.9	DH48	10															
JUL 27	14:14	20.0	4.58	29.9	DH48	1															
AUG 04	15:58	22.0	2.85	29.9	DH48	18	158														
AUG 05	13:14	22.0	3.55	29.9	DH48	20															
AUG 10	12:35	18.0	3.17	29.9	DH48	03															
AUG 21	16:16	23.0	1.80	29.9	DH48	19															
AUG 22	14:04	21.0	1.84	29.9	DH48	8															
AUG 26	16:35	16.0	1.77	29.9	DH48	11															
AUG 28	12:25	16.0	1.72	29.9	DH48	7															
AUG 31	15:00	20.0	2.08	29.9	DH48	17															
SEP 05	08:53	15.0	1.84	29.9	DH48	8															
SEP 09	20:45	15.0	4.00	29.9	DH48	27															
SEP 12	11:36	16.0	3.81	29.9	DH48	3															
SEP 13	22:27	16.0	2.71	29.9	DH48	2															
SEP 14	16:42	16.0	8.85	29.9	DH48	38															
SEP 15	00:25	12.0	13.6	29.9	DH48	38															
SEP 15	23:10	12.0	7.88	29.9	DH48	11															
SEP 16	13:20	10.0	5.38	29.9	DH48	4															
SEP 17	01:20	12.0	4.30	29.9	DH48	5															
SEP 17	17:03	17.0	4.78	29.9	DH48	4															
SEP 20	21:20	12.0	3.55	29.9	DH48	3															
SEP 21	21:47	10.0	13.2	29.9	DH48	43															
SEP 23	00:32	10.0	25.5	29.9	DH48	27	68														
SEP 23	14:05	12.0	20.8	29.9	DH48	13															
SEP 24	02:09	10.0	18.7	29.9	DH48	12															
SEP 24	11:30	13.5	13.8	29.9	DH48	7															
SEP 24	22:28	10.0	11.2	29.9	DH48	5															
SEP 25	03:35	7.0	8.48	29.9	DH48	15															
SEP 25	13:47	10.0	8.07	29.9	DH48	17															
SEP 27	12:08	10.0	5.12	29.9	DH48	22															
SEP 27	18:28	10.0	4.89	29.9	DH48	16															
SEP 27	22:28	8.0	4.42	29.9	DH48	1															
SEP 28	14:31	16.0	4.20	29.9	DH48	2															
SEP 28	18:16	10.0	4.04	29.9	DH48	2															
SEP 29	17:35	15.0	3.71	29.9	DH48	1															
SEP 29	23:40	10.0	3.83	29.9	DH48	17															
SEP 30	15:25	15.0	3.89	29.9	DH48	3															
SEP 30	20:47	15.0	3.38	29.9	DH48	4															
SEP 30	23:53	15.0	4.12	29.9	DH48	2															
OCT 01	18:48	15.0	4.14	29.9	DH48	5															
OCT 01	20:40	14.0	8.34	29.9	DH48	21															
OCT 02	00:07	13.0	18.3	29.9	DH48	88															
OCT 02	21:14	10.0	41.8	29.9	DH48	37	118														
OCT 03	13:14	12.0	24.6	29.9	DH48	84															
OCT 03	20:48	10.0	19.8	29.9	DH48	8															
OCT 04	15:43	10.0	21.7	29.9	DH48	9															
OCT 04	21:21	10.0	23.0	29.9	DH48	11															
OCT 05	22:50	10.0	18.8	29.9	DH48	7															
OCT 06	23:25	10.0	13.7	29.9	DH48	6															
OCT 07	00:11	9.0	10.6	29.9	DH48	5															
OCT 08	23:14	10.0	14.6	29.9	DH48	9															
OCT 09	10:27	10.0	19.3	29.9	DH48	11															
OCT 10	00:08	7.0	18.5	29.9	DH48	4	112														
OCT 10	19:25	10.0	13.1	29.9	DH48	1															
OCT 11	12:44	10.0	11.2	29.9	DH48	3															
OCT 11	22:07	7.0	10.2	29.9	DH48	3															
OCT 12	00:55	7.0	10.2	29.9	DH48	2															
OCT 12	11:55	5.0	9.74	29.9	DH48	1															
OCT 12	14:25	10.0	9.54	29.9	DH48	2															
OCT 12	17:45	8.0	9.41	29.9	DH48	3															
OCT 12	22:37	7.0	9.21	29.9	DH48	3															
OCT 13	18:25	12.0	8.43	29.9	DH48	2															
OCT 13	22:51	7.0	8.18	29.9	DH48	3															
OCT 14	00:43	8.0	8.12	29.9	DH48	2															
OCT 14	14:07	12.0	7.82	29.9	DH48	2															
OCT 14	20:07	7.0	7.82	29.9	DH48	3															
OCT 14	22:48	8.0	7.35	29.9	DH48	8															
OCT 15	18:15	12.0	7.35	29.9	DH48	2															
OCT 16	00:35	8.0	7.29	29.9	DH48	2															
OCT 16	11:07	12.0	8.85	29.9	DH48	2															
OCT 16	14:28	12.0	8.78	29.9	DH48	2															
OCT 16	20:17	7.0	8.81	29.9	DH48	3															
OCT 17	00:07	8.0	8.80	29.9	DH48	3															
OCT 17	02:55	3.0	8.87	29.9	DH48	4															
OCT 17	12:32	12.0	8.48	29.9	DH48	2															
OCT 17	20:16	7.0	4.88	29.9	DH48	2															
OCT 18	00:55	5.0	8.07	29.9	DH48	1															
OCT 18	13:02	10.0	8.07	29.9	DH48	2															
OCT 18	16:10	7.0	8.12	29.9	DH48	1															
OCT 18	21:16	7.0	8.07	29.9	DH48	2															
OCT 18	18:27	10.0	8.87	29.9	DH48	2															
OCT 19	23:36	7.0	8.78	29.9	DH48	2	139														
OCT 20	06:10	10.0	8.80	29.9	DH48	2															
OCT 20	12:30	8.0	8.81	29.9	DH48	1															

NOTE : SINGLE VERTICAL LOCATED AT 29.9 METRES FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

CONTINUED

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
OCT 21	18:31	10.0	5.71	29.9	DH48	1															
OCT 21	22:00	7.0	5.61	29.9	DH48	1															
OCT 21	23:39	7.0	5.71	29.9	DH48	1															
OCT 22	18:10	10.0	5.88	29.9	DH48	1															
OCT 23	00:46	5.0	5.97	29.9	DH48	1															
OCT 23	11:58	5.0	5.71	29.9	DH48	2															
OCT 23	18:20	5.0	5.58	29.9	DH48	1															
OCT 24	21:08	7.0	5.07	29.9	DH48	4															
OCT 25	06:15	10.0	5.07	29.9	DH48	5															
OCT 25	12:38	10.0	5.07	29.9	DH48	3															
OCT 25	18:18	10.0	5.81	29.9	DH48	4															
OCT 25	21:38	7.0	5.81	29.9	DH48	4															
OCT 25	23:45	5.0	5.07	29.9	DH48	7															
OCT 26	18:38	5.0	10.2	29.9	DH48	8															
OCT 26	23:33	2.0	9.21	29.9	DH48	7															
OCT 27	18:54	5.0	7.48	29.9	DH48	7															
OCT 28	18:20	10.0	6.50	29.9	DH48	10															
OCT 28	23:00	10.0	6.89	29.9	DH48	8															
OCT 29	18:58	10.0	24.0	29.9	DH48	2															
OCT 30	00:55	2.0	22.1	29.9	DH48	1															
OCT 30	09:01	5.0	21.0	29.9	DH48	2															
NOV 01	22:30	1.0	11.3	29.9	DH48	2															
NOV 02	22:45	1.0	9.87	29.9	DH48	2															
NOV 03	18:33	10.0	10.9	29.9	DH48	2															

NOTE : SINGLE VERTICAL LOCATED AT 29.9 METRES FOR 1987

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	------CCCCCC	MANUAL	80	NOV 04	1	AUG 31	185	NOV 04	1 470	---	---	---
1967	CCCCCCCCCCCC	MANUAL	186	JUL 03	0	FEB 24 *	1 480	NOV 24	31 000	85.1	85.1	---
1968	CCCCCCCCCCCC	MANUAL	457	FEB 04	1	OCT 09	2 150	FEB 04	25 800	70.8	78.0	9.2
1969	CCCCCCCCCCCC	MANUAL	215	JAN 19	3	JUN 16	2 340	DEC 23	19 500	53.4	69.8	13.1
1970	CCCCCCCCCCCC	MANUAL	351	FEB 04	2	MAY 11	11 300	FEB 04	41 900	115	81.1	19.1
1971	CCCCCCCCCCCC	MANUAL	355	NOV 28	1	OCT 24	1 800	APR 15	26 300	77.6	80.4	13.8
1972	CCCCCCCCCCCC	MANUAL	661	OCT 06	1	FEB 06	5 880	MAY 04	43 900	120	87.0	12.3
1973	CCCCCCCCCCCC	MANUAL	406	MAR 12	2	SEP 09	3 020	APR 28	34 400	94.3	88.0	10.2
1974	CCCCCCCCCCCC	MANUAL	483	SEP 30	1	JUN 05	10 100	DEC 10	46 300	127	82.9	9.9
1975	CCCCCCCCCCCC	MANUAL	191	NOV 14	3	NOV 10	3 040	NOV 14	25 000	68.4	80.2	9.5
1976	CCCCCCCCCCCC	MANUAL	188	JAN 28	3	SEP 26	4 390	JAN 28	34 800	95.1	90.7	8.4
1977	CCCCCCCCCCCC	MANUAL	248	OCT 09	5	FEB 13	3 370	DEC 28	45 700	125	93.8	8.1
1978	CCCCCCCCCCCC	MANUAL	137	APR 20	3	DEC 31	1 810	APR 21	33 800	84.6	91.4	8.0
1979	CCCCCCCCCCCC	MANUAL	427	APR 10	2	OCT 21	7 850	JAN 03	62 400	171	97.8	9.4
1980	CCCCCCCCCCCC	MANUAL	332	APR 05	1	FEB 03	1 830	APR 05	19 800	53.5	84.3	9.8
1981	CCCCCCCCCCCC	MANUAL	781	OCT 08	2	JUL 31	11 800	FEB 12 *	89 200 *	180	101	10.4
1982	CCCCCCCCCCCC	MANUAL	200	APR 01	2	MAY 28	2 180	APR 01	23 700	84.9	88.6	10.3
1983	CCCCCCCCCCCC	MANUAL	144	DEC 14	3	FEB 23	2 200	DEC 14	24 700	87.7	88.7	10.0
1984	CCCCCCCCCCCC	MANUAL	928	APR 6 *	1	MAR 6	3 810	APR 06	43 700	119	87.8	9.4
1985	CCCCCCCCCCCC	MANUAL	335	MAY 22	1	JAN 3	1 400	APR 07	14 300	39.1	84.8	9.7
1986	CCCCCCCCCCCC	MANUAL	309	APR 5	2	JAN 8	3 140	MAR 31	32 400	88.8	84.5	9.3
1987	CCCCCCCCCCCC	MANUAL	76	APR 7	1	MAR 4	1 770	APR 01	18 800	53.8	82.6	9.2

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 46 19 36 N LONG 67 01 17 W
DRAINAGE AREA: 3.69 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 5.30 TONNES FOR THE PERIOD APR 01 TO OCT 31

REMARKS:

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.915	15	1.18	0.138	6	0.07	0.077	4	0.03	1
2	0.880	17	1.41	0.089	2	0.02	0.062	3	0.01	2
3	0.855	8	0.43	0.071	2	0.01	0.038	2	0.01	3
4	0.551	9	0.44	0.058	2	0.01	0.039	2	0.01	4
5	0.510	7	0.31	0.052	2	0.01	0.028	2	0	5
6	0.518	7	0.31	0.087	3	0.02	0.038	4	0.01	6
7	0.488	8	0.28	0.153	12	0.18	0.030	3	0.01	7
8	0.372	8 S	0.18	0.100	2	0.02	0.030	4 S	0.01	8
9	0.301	5	0.13	0.072	2	0.01	0.081	13	0.07	9
10	0.259	5	0.11	0.082	2	0.01	0.157	18 S	0.22	10
11	0.273	5	0.13	0.080	2	0.01	0.098	7	0.08	11
12	0.264	5	0.11	0.085	2	0.01	0.083	5	0.03	12
13	0.218	4	0.08	0.051	2	0.01	0.080	5	0.03	13
14	0.180	3	0.05	0.045	2	0.01	0.043	3	0.01	14
15	0.148	3 S	0.04	0.089	7	0.04	0.052	4	0.02	15
16	0.128	4	0.04	0.104	3	0.03	0.038	3	0.01	16
17	0.124	4	0.04	0.078	2	0.01	0.028	3	0.01	17
18	0.124	3	0.03	0.083	2	0.01	0.022	2	0	18
19	0.120	3	0.03	0.089	2	0.01	0.021	2	0	19
20	0.091	3	0.02	0.083	2	0.01	0.020	2	0	20
21	0.083	3	0.02	0.044	2	0.01	0.018	2	0	21
22	0.072	3	0.02	0.041	2	0.01	0.018	2	0	22
23	0.068	3	0.02	0.072	3	0.02	0.018	2	0	23
24	0.064	3	0.02	0.055	3	0.01	0.018	2	0	24
25	0.062	3	0.02	0.045	3	0.01	0.018	2	0	25
26	0.055	3	0.01	0.038	2	0.01	0.018	3	0	26
27	0.043	3	0.01	0.032	2	0.01	0.018	3	0	27
28	0.039	3	0.01	0.031	2	0.01	0.237	14 S	0.28	28
29	0.043	4	0.01	0.030	2	0.01	0.078	3	0.02	29
30	0.099	14 S	0.12	0.034	5	0.01	0.038	3 S	0.01	30
31				0.173	21 S	0.31				31
TOTAL	7.735		5.50	2.084		0.91	1.438		0.68	TOTAL

DAY	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.048	3	0.01	0.011	1	0	0.008	2	0	1
2	0.030	2	0.01	0.010	1	0	0.007	1	0	2
3	0.021	2	0	0.011	3	0	0.008	1	0	3
4	0.016	2	0	0.023	4	0.01	0.007	1	0	4
5	0.018	2	0	0.018	1	0	0.007	1	0	5
6	0.018	2	0	0.013	1	0	0.007	1	0	6
7	0.014	2	0	0.010	1	0	0.007	1	0	7
8	0.014	1	0	0.008	1	0	0.008	1	0	8
9	0.013	1	0	0.008	1	0	0.070	20 S	0.12	9
10	0.013	1	0	0.008	1	0	0.058	2	0.01	10
11	0.012	1	0	0.009	1	0	0.024	1	0	11
12	0.013	1	0	0.010	1	0	0.018	1	0	12
13	0.014	1	0	0.009	1	0	0.013	1	0	13
14	0.014	1	0	0.008	1	0	0.088	10	0.08	14
15	0.039	3	0.01	0.008	1	0	0.032	2	0.01	15
16	0.022	1	0	0.008	1	0	0.018	2	0	16
17	0.016	1	0	0.008	1	0	0.028	3	0.01	17
18	0.013	1	0	0.008	1	0	0.022	2	0	18
19	0.014	2	0	0.008	1	0	0.018	1	0	19
20	0.018	3	0	0.007	1 S	0	0.013	1	0	20
21	0.010	1	0	0.008	1	0	0.180	7 S	0.11	21
22	0.011	1	0	0.008	1	0	0.157	3	0.04	22
23	0.012	1	0	0.007	1	0	0.101	3	0.03	23
24	0.028	3	0.01	0.008	1	0	0.064	2	0.01	24
25	0.019	1	0	0.008	1	0	0.033	2	0.01	25
26	0.014	1	0	0.007	1	0	0.027	2	0	26
27	0.018	2 S	0	0.008	1	0	0.023	2	0	27
28	0.014	1	0	0.008	1	0	0.018	2 S	0	28
29	0.012	1	0	0.008	1	0	0.018	2	0	29
30	0.010	1	0	0.008	1	0	0.047	5 S	0.02	30
31	0.010	1	0	0.008	1	0				31
TOTAL	0.528		0.04	0.376		0.01	1.111		0.43	TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1987

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.181	2 S	0.03							1
2	0.080	2	0.01							2
3	0.050	1	0							3
4	0.118	5	0.05							4
5	0.135	1	0.01							5
6	0.080	1	0.01							6
7	0.061	1	0.01							7
8	0.163	7	0.10							8
9	0.092	2	0.02							9
10	0.078	1	0.01							10
11	0.082	1	0.01							11
12	0.054	1	0							12
13	0.048	1	0							13
14	0.042	1	0							14
15	0.038	1	0							15
16	0.036	1	0							16
17	0.033	1	0							17
18	0.033	1	0							18
19	0.035	1	0							19
20	0.033	1	0							20
21	0.032	1	0							21
22	0.054	2	0.01							22
23	0.039	1	0							23
24	0.034	1	0							24
25	0.102	5	0.05							25
26	0.122	2	0.02							26
27	0.065	1 S	0.01							27
28	0.065	1	0.01							28
29	0.201	4 S	0.07							29
30	0.113	1	0.01							30
31	0.087	1	0.01							31
TOTAL	2.388		0.45							TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
APR 08	10:30	2.0	0.452	MID	DIP	8															
APR 15	08:15	1.5	0.183	MID	DIP	15															
APR 15	16:00		0.227	10LB	SURF	4															
APR 30	08:15	2.5	0.047	MID	DIP	8															
APR 30	16:00		0.121	10LB	SURF	24															
MAY 31	04:50		0.227	10LB	SURF	71															
JUN 08	12:15	12.0	0.018	MID	DIP	6															
JUN 10	01:10		0.121	10LB	SURF	17															
JUN 28	05:30		0.227	10LB	SURF	26															
JUN 30	13:00	17.0	0.028	MID	DIP	3															
JUL 27	08:30	15.0	0.031	MID	DIP	3															
AUG 20	13:45	18.0	0.007	MID	DIP	1															
SEP 08	16:15		0.121	10LB	SURF	78															
SEP 21	09:45	10.5	0.083	MID	DIP	9															
SEP 21	11:45		0.121	10LB	SURF	27															
SEP 21	12:05	10.5	0.147	MID	DIP	17															
SEP 21	13:00		0.227	10LB	SURF	15															
SEP 28	08:40	5.0	0.018	MID	DIP	2															
SEP 30	21:40		0.121	10LB	SURF	18															
OCT 01	00:05		0.227	10LB	SURF	5															
OCT 27	10:35	2.5	0.081	MID	DIP	1															
OCT 29	06:33	7.5	0.244	MID	DIP	2															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1987

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-OCT MEAN LOAD (TONNES)	SUMMARY : APR-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-OCT STANDARD ERROR OF MEAN %
1974	---PCCCCCP--	DUAL	13	AUG 04	1	JUL 11 *	1.36	MAY 01	9.89	---	---	---
1975	---PCCCCCC--	DUAL	5	MAY 01	1	MAY 05	0.43	MAY 11	4.10	---	---	---
1976	---CCCCCCC--	DUAL	10	JUL 13	1	APR 15	2.18	AUG 10	13.8	0.05	0.05	---
1977	---CCCCCCC--	DUAL	17	JUN 20	3	SEP 01	1.28	JUN 05	21.5 *	0.10	0.05	25.0
1978	---CCCCCC---	DUAL	36	JUN 05	1	MAY 11	0.41	JUN 05	7.40	---	---	---
1979	--PCCCCCCC--	DUAL	33	AUG 13	1	MAY 02	1.05	AUG 13	12.0	0.05	0.07	21.8
1980	---PCCCCCC--	MANUAL	24	APR 11	1	MAY 11	1.75	APR 11	7.28	---	---	---
1981	---CCCCCCC--	MANUAL	20	SEP 18	1	APR 28	0.83	APR 05	10.2	0.05	0.07	17.5
1982	---CCCCCCC--	MANUAL	24	JUN 02	1	AUG 18	1.00	APR 18	9.78	0.05	0.05	16.2
1983	---CCCCCCC--	MANUAL	32	APR 17	1	APR 15	2.80	APR 18 *	10.4	0.05	0.05	13.4
1984	---CCCCCCC--	MANUAL	45	JUN 18	1	APR 28	0.80	APR 07	7.68	0.04	0.05	12.6
1985	---CCCCCCC--	MANUAL	38	JUL 10	1	APR 24	0.67	APR 17	4.05	0.02	0.05	18.0
1986	---CCCCCCC--	MANUAL	73	APR 22	1	APR 10	1.48	APR 22	7.40	0.03	0.05	14.8
1987	---CCCCCCC--	MANUAL	76	SEP 8 *	1	AUG 20	1.41	APR 02	8.30	0.04	0.05	13.8

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BD001

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 46 46 10 N LONG 65 49 36 W
DRAINAGE AREA: 5 050 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 30 000 TONNES FOR THE PERIOD APR 01 TO DEC 31

REMARKS:

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	280 B	5	108	182	10 S	140	83.4	1	4.81	1
2	360 B	5	161	172	5 S	74.3	83.6	1	4.68	2
3	822 B	8	381	187	2 S	27.1	49.3	1	4.28	3
4	760 B	17	1 100	141	2 S	24.4	43.4	1	3.78	4
5	738	13	829	138	1 S	10.9	40.7	1	3.62	5
6	827	12	860	118						6
7	888	46	2 880	137	2	20.4	41.3	1 S	3.87	7
8	878	20 S	1 170	185	3 S	35.5	46.7	7	27.6	8
9	526	6 S	273	149	32 S	469	47.0	4	16.2	9
10	427	4 S	148	138	4 S	51.5	43.6	1	3.77	10
					2	22.1	54.3	12	88.3	
11	418	4 S	144	112						11
12	447	5 S	193	102	2 S	18.4	87.8	12	70.4	12
13	463	5 S	181	88.3	3 S	26.4	82.4	3	18.2	13
14	382	5 S	165	83.4	3 S	25.7	57.2	1	4.84	14
15	362	4 S	118	85.1	4	32.3	57.6	1	4.97	15
					3 S	22.1	54.1	1 S	4.87	
16	324	4 S	112	83.7	2 S	15.2	51.9	1	4.48	16
17	318	3 S	82.4	107	14 S	129	48.0	1	3.97	17
18	320	3 S	82.9	88.7	8 S	60.1	40.8	1 S	3.51	18
19	351	4 S	121	64.6	4	29.2	38.2	1	3.13	19
20	388	4 S	133	78.7	3 S	19.8	35.2	1	3.04	20
21	313	3 S	80.9	89.0	17 S	101	35.9	4	12.8	21
22	281	3 S	72.8	85.6	12	68.2	34.9	2	6.03	22
23	248	4 S	85.0	86.9	6	28.9	33.2	1	2.78	23
24	218	4 S	76.3	70.0	15	90.7	30.8	1	2.84	24
25	201	6	104	87.9	6	46.8	29.8	1	2.58	25
26	180	7 S	109	81.6	3 S	10.7	28.8	1	2.47	26
27	180	4 S	55.3	56.8	1	4.88	28.0	1	2.42	27
28	147	3 S	38.1	51.8	1	4.46	32.0	4	11.1	28
29	138	4	48.0	49.4	1	4.27	84.7	30 S	248	29
30	142	3 S	36.8	48.3	1	4.38	82.5	11	87.9	30
31				50.6	1	4.37				31
TOTAL	11 383		8 881.5	3 083.5		1 800.87	1 421.5		823.24	TOTAL

DAY	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	84.3	5	37.8	30.8	4	10.6	17.0	3	4.61	1
2	82.2	3	9.02	30.9	3	8.01	16.4	3	4.26	2
3	43.8	1	3.78	30.4	3	7.58	15.8	3	4.10	3
4	37.8	1	3.27	30.3	3	7.85	15.9	3	4.12	4
5	34.5	1	2.88	33.7	8	23.3	17.2	2	2.97	5
6	33.0	1	2.88	35.3	11	33.5	18.3	2	2.82	6
7	31.8	1	2.75	35.7	12	37.0	15.8	2	2.73	7
8	29.8	1	2.57	31.3	10	27.0	15.2	2	2.82	8
9	27.6	1	2.38	27.8	9 S	21.7	17.7	2	4.59	9
10	27.2	2	4.70	26.9	8	18.8	37.2	26	83.8	10
11	30.7	7 S	18.6	25.2	8	17.4	80.5	23	120	11
12	32.0	6	16.6	26.4	9	20.5	48.6	9	37.8	12
13	30.4	3	7.48	27.0	9	21.0	37.2	7	23.5	13
14	28.2	2	4.87	27.1	7	16.4	35.6	4	24.7	14
15	27.1	3	4.88	25.7	5	11.1	80.5	30	187	15
16	27.1	4	8.37	23.8	5	10.3	88.1	10	87.1	16
17	27.8	6	14.4	24.3	4	8.40	49.8	6	26.4	17
18	26.0	6	13.5	24.8	5	13.8	41.8	7	25.3	18
19	23.7	4	8.19	24.1	9	18.7	38.5	7	23.3	19
20	22.2	5 S	9.69	23.1	8	16.0	34.9	7	21.1	20
21	21.3	5	9.20	22.5	9	17.5	32.9	7	19.9	21
22	20.5	5	8.69	20.8	9 S	16.2	81.0	28	188	22
23	18.7	4	6.81	19.6	8	13.5	194	49	884	23
24	23.0	5	9.94	18.3	8	12.8	146	11	137	24
25	80.2	28	113	18.8	7	11.4	107	5	74.0	25
26	81.0	24	168	18.4	7	11.1	76.8	5	40.8	26
27	78.1	8 S	41.0	18.7	6	9.89	63.1	5	27.3	27
28	57.2	5	24.7	18.2	6	7.88	52.7	5	22.8	28
29	43.1	5	16.6	17.8	6	7.73	46.4	4	16.0	29
30	36.8	4	12.7	17.2	4	5.84	42.9	5	18.5	30
31	33.8	4	11.3	17.1	4	5.81				31
TOTAL	1 121.7		593.89	773.1		489.87	1 471.0		1 886.72	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

SUSPENDED SEDIMENT FOR 1987

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	58.8	12	61.0	89.2	25	214	138	18	223	1
2	141	57	694	86.0	19	141	819	70	3 740	2
3	130	40	449	77.8	15	107	478	27	1 120	3
4	104	23	207	72.8	14	87.8	302	15	417	4
5	105	31	281	86.1	21	156	235	13	264	5
6	107	32	286	112	39	377	175 E	10	151	6
7	83.2	26	201	102	26	228	149 E	9	115	7
8	83.2	22	158	82.0	21	149	135 E	14	163	8
9	115	42	417	74.8	18	122	122 E	15	169	9
10	125	33	356	76.8	18	119	108 E	13	121	10
11	102	11	98.9	72.2	16	99.8	96.0 E	11	91.2	11
12	87.2	8	80.3	84.0	15	82.9	88.0 E	10	74.3	12
13	77.4	8	53.5	82.8	15	81.1	80.0 E	9	62.2	13
14	70.2	7	42.5	83.2	15	81.9	74.0 E	9	57.5	14
15	68.9	7	38.9	89.0	17	95.5	68.0 E	6	47.0	15
16	62.0	6	32.1	68.8	13	82.8	85.0 E	6	33.7	16
17	58.3	5	25.2	48.8	11	48.4	82.0 E	5	26.8	17
18	58.1	5	24.2	57.8	12	59.9	80.0 E	4	20.7	18
19	55.6	5	24.0	78.7	14	85.2	68.0 E	3	15.0	19
20	54.9	4	19.0	88.9	10	76.8	58.0 E	3	14.5	20
21	53.1	4	18.4	101	13	113	55.5 E	3	14.4	21
22	52.2	4	18.0	98.8	14	137	53.0 E	3	13.7	22
23	52.3	4	18.1	77.8	10	67.3	51.0 E	4	17.8	23
24	51.8	3	13.4	67.0	8	46.3	50.0 E	4	17.3	24
25	51.0	3	13.2	59.0 E	8	40.8	48.5 E	3	12.6	25
26	85.8	14	84.8	53.0 E	7	32.1	47.0 E	3	12.2	26
27	99.7	20	172	46.0 E	6	23.8	46.5 E	3	11.8	27
28	84.0	10	72.8	41.0 E	6	21.3	44.5 E	2	7.89	28
29	82.9	15	107	39.0 E	5	18.8	43.5 E	2	7.52	29
30	141	63	848	42.0 E	5	18.1	42.5 E	2	7.34	30
31	121	34	355				42.0 E	1	3.83	31
TOTAL	2 810.7		5 055.9	2 150.8		3 000.8	3 888.0		7 052.83	TOTAL

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
APR 08	17:15	4.0	884	80.5	D49	8	40														
APR 08	17:30	4.0	907	80.5	D49	5															
APR 10	09:30	5.0	438	80.5	D49	4															
APR 10	17:40	5.0	417	80.5	D49	3															
APR 11	10:40	5.0	428	80.5	D49	5															
APR 11	17:40	5.0	431	80.5	D49	3															
APR 12	10:45	5.0	448	80.5	D49	5															
APR 12	18:25	5.0	470	80.5	D49	5															
APR 13	09:50	4.0	454	80.5	D49	4															
APR 13	18:15	5.0	453	80.5	D49	4															
APR 14	18:40	5.0	391	80.5	D49	4															
APR 15	10:10	4.0	352	80.5	D49	3															
APR 15	18:05	5.0	348	80.5	D49	4															
APR 16	09:20	5.0	330	80.5	D49	3															
APR 16	18:05	5.0	333	80.5	D49	3															
APR 17	10:30	7.0	326	80.5	D49	3															
APR 17	18:00	10.0	336	80.5	D49	3															
APR 18	10:00	7.0	322	80.5	D49	3															
APR 18	17:00	11.0	328	80.5	D49	2															
APR 19	10:00	11.0	353	80.5	D49	3															
APR 19	18:30	15.0	368	80.5	D49	5															
APR 20	09:20	10.0	373	80.5	D49	4															
APR 20	17:40	14.0	363	80.5	D49	4															
APR 21	07:50	11.0	327	80.5	D49	3															
APR 21	18:00	15.0	313	80.5	D49	3															
APR 22	10:25	11.0	283	80.5	D49	3															
APR 22	17:45	15.0	284	80.5	D49	3															
APR 23	18:40	14.0	248	80.5	D49	4															
APR 24	11:15	10.0	226	80.5	D49	4															
APR 26	17:30	10.0	178	80.5	D49	7															
APR 27	17:40	9.0	161	80.5	D49	3	44														
APR 28	17:20	8.0	148	80.5	D49	3															
APR 30	17:45	9.0	148	80.5	D49	3															
MAY 01	17:45	7.0	175	80.5	D49	9															
MAY 02	17:30	9.0	180	80.5	D49	4															
MAY 03	01:10	7.0	182	80.5	D49	1															
MAY 04	13:25	7.0	148	80.5	D49	3															
MAY 05	17:00	11.0	130	80.5	D49	2															
MAY 07	17:45	11.0	151	80.5	D49	2															
MAY 08	18:50	14.0	178	80.5	D49	27															
MAY 09	11:45	13.0	154	80.5	D49	2	47														
MAY 11	17:05	17.0	113	80.5	D49	2															
MAY 12	17:10	14.0	103	80.5	D49	3															
MAY 13	18:05	18.0	101	80.5	D49	3															
MAY 15	17:25	12.0	85.5	80.5	D49	3															
MAY 16	17:20	16.0	97.8	80.5	D49	1															
MAY 17	17:30	13.0	111	80.5	D49	8															
MAY 18	17:50	12.0	95.0	80.5	D49	1															
MAY 20	18:40	15.0	78.3	80.5	D49	2															
MAY 21	18:30	18.0	69.7	80.5	D49	23															
MAY 28	18:15	20.0	51.6 H	80.5	D49	1	48														
JUN 08	10:00	15.0	41.3 H	80.5	D49	1															
JUN 15	12:00	15.0	54.1 H	80.5	D49	1															
JUN 18	18:20	22.0	40.6 H	80.5	D49	1															
JUN 29	18:00	20.0	84.7 H	80.5	D49	31															
JUL 11	17:00	25.0	30.7 H	80.5	D49	5															
JUL 20	10:10	21.0	22.2 H	80.5	D49	5															
JUL 27	18:40	22.0	75.1 H	80.5	D49	5															
AUG 09	14:20	23.0	27.8 H	80.5	D49	10															
AUG 22	11:00	25.0	20.8 H	80.5	D49	9															

NOTE : SINGLE VERTICAL LOCATED AT MID (MID STREAM) FOR 1987

DISCHARGE SYMBOL(S): H - DAILY MEAN

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED MAXIMUM (mg/L)		CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	---PCCP-----	MANUAL	27	MAY 08	2	JUL 11	1 830	MAY 08	18 800	---	---	---
1984	---CCCCCCCCC	MANUAL	19	NOV 14	1	MAY 21 *	2 380	JUN 03	30 700 *	112	112	---
1985	CCCCCCCCCCC	MANUAL	41	NOV 7	1	FEB 11	429	NOV 08	10 100	35.1	73.8	52.2
1986	---CCCCCCCC-	MANUAL	44	APR 14 *	1	MAY 18	1 910	APR 24	21 800	---	---	---
1987	---CCCCCCCC	MANUAL	31	JUN 29	1	MAY 3	3 740	DEC 02 *	30 000	103	85.4	29.4

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 48 34 31 N LONG 58 21 48 W
DRAINAGE AREA: 640 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 3 890 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	14.2 B	3	3.68	8.80 B	3	2.23	5.80 B	3	1.45	1
2	13.5 B	3	3.50	12.0 B	3	3.11	5.20 B	3	1.35	2
3	12.8 B	3	3.32	15.2 B	3	3.94	4.85 B	3	1.28	3
4	12.2 B	3	3.16	12.0 B	3	3.11	4.65 B	3	1.21	4
5	11.7 B	3	3.03	10.6 B	3	2.72	4.40 B	3	1.14	5
6	11.2 B	3	2.90	9.20 B	3	2.38	4.15 B	3	1.08	6
7	10.8 B	3	2.80	7.80 B	3	2.05	3.88 B	3	1.03	7
8	13.9 B	3	3.80	7.10 B	3	1.84	3.78 B	3	0.98	8
9	12.6 B	3	3.24	6.10 B	3	1.58	3.67 B	3	0.95	9
10	11.5 B	3	2.98	8.00 B	3	2.07	3.35 B	3	0.87	10
11	10.6 B	3	2.80	12.6 B	3	3.27	3.20 B	3	0.83	11
12	9.80 B	3	2.54	11.5 B	3	2.98	3.10 B	3	0.80	12
13	9.30 B	3	2.38	10.4 B	3	2.70	2.85 B	3	0.78	13
14	8.70 B	3	2.28	9.60 B	3	2.48	2.85 B	3	0.74	14
15	8.14 B	3 S	2.11	8.70 B	3	2.28	2.75 B	3	0.71	15
16	7.82 B	3	1.98	8.00 B	3	2.07	2.65 B	3	0.68	16
17	7.20 B	3	1.87	7.60 B	3	1.94	2.85 B	3	0.86	17
18	6.80 B	3	1.78	6.90 B	3	1.78	2.50 B	3	0.65	18
19	6.50 B	3	1.68	6.50 B	3	1.68	4.80 B	3	1.18	19
20	6.20 B	3	1.61	8.00 B	3	1.66	9.00 B	3	2.33	20
21	5.65 B	3	1.52	6.80 B	3	1.46	17.0 B	3	4.41	21
22	5.80 B	3	1.46	6.20 B	3	1.35	28.6 B	3	7.46	22
23	5.40 B	3	1.40	6.00 B	3	1.30	25.2 B	3	6.53	23
24	7.00 B	3	1.81	4.88 B	3 S	1.21	22.7 B	3	5.88	24
25	11.2 B	3	2.80	7.80 B	3	2.02	20.0 B	3	5.18	25
26	10.2 B	3	2.64	7.00 B	3	1.81	18.1 B	3	4.69	26
27	9.00 B	3	2.33	6.50 B	3	1.68	16.8 B	3	4.35	27
28	8.20 B	3	2.13	6.00 B	3	1.56	15.8 B	3	4.10	28
29	7.20 B	3	1.87				14.8 B	3	3.84	29
30	8.30 B	3	1.83				14.1 B	3	3.65	30
31	5.60 B	3	1.46				13.5 B	3	3.50	31
TOTAL	285.81		74.33	232.08		60.18	288.69		74.28	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	18.5 B	3	4.28	85.1	2	11.2	12.5	1	1.08	1
2	35.9	6	18.6	51.2	1	6.42	11.6	1	1.00	2
3	71.8	4	24.7	46.4	1	4.18	11.0	1	0.98	3
4	87.8	3	17.5	47.8	1 S	4.14	10.4	1	0.90	4
5	74.1	3	19.2	47.2	1 S	4.08	9.87	2	1.71	5
6	78.5	3	20.3	52.8	1	4.67	8.29	3 S	2.41	6
7	82.0	3	21.3	76.5	4	26.4	11.0	5	4.76	7
8	86.0	3	24.0	72.8	1 S	6.30	11.2	5	4.84	8
9	87.7	3	22.7	86.4	1	4.91	9.43	5	4.07	9
10	85.7	3	22.2	82.9	1 S	4.57	8.80	5	3.80	10
11	87.8	3	17.5	84.3	1	4.69	8.44	5	3.65	11
12	88.0	3	14.5	48.6	1	3.94	8.47	5 S	3.68	12
13	47.4	3	12.3	85.7	1	4.81	13.8	7	6.38	13
14	41.4	3	10.7	44.6	1 S	3.65	12.7	4 S	4.38	14
15	43.8	2	11.3	43.1	1	3.94	8.88	4	3.41	15
16	48.8	3	12.8	52.7	0	0	10.1	4	3.48	16
17	44.4	3	11.5	48.2	0 S	0	10.8	3	7.80	17
18	52.8	4	16.3	34.8	1	3.02	9.21	3	2.38	18
19	180	38	881	28.3	1	2.53	8.34	3	2.15	19
20	139	23	284	25.9	2 S	4.42	8.03	3	2.08	20
21	127	20	219	23.7	2	4.10	7.85	3	2.03	21
22	182	25 S	393	23.8	2	4.13	7.33	3	1.90	22
23	118	21 S	214	24.2	1	3.06	8.97	2 S	1.20	23
24	107	14 S	129	21.2	1	1.83	8.72	2	1.18	24
25	104	3 S	27.0	18.8	1	1.63	8.68	2	1.14	25
26	84.0	1	7.28	17.4	1	1.50	8.24	1	0.84	26
27	88.7	2 S	12.0	16.7	1	1.44	8.08	1	0.82	27
28	86.4	2 S	10.1	15.4	1	1.33	8.02	1	0.82	28
29	81.8	2 S	8.92	16.1	1 S	1.38	8.23	1	0.80	29
30	84.3	2 S	11.1	14.7	1	1.27	8.18	1 S	0.71	30
31				13.1	1	1.13				31
TOTAL	3 382.5		2 190.78	1 211.1		137.51	278.15		72.42	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1987

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	8.74	1	0.76	8.82	5 S	4.57	9.18	1	0.79	1
2	7.72	2	1.33	15.0	4	5.53	85.6	36 S	280	2
3	8.76	1	0.88	8.59	1	0.74	46.1	13 S	51.6	3
4	8.00	1	0.82	8.59	1	0.67	24.1	3	8.26	4
5	8.48	1	0.47	5.78	1	0.50	22.8	2 S	3.94	5
6	5.50	1	0.48	5.51	1	0.48	19.0	2	3.28	6
7	5.33	1	0.48	5.04	1 S	0.44	16.5	2	2.86	7
8	5.16	1 S	0.44	4.67	1	0.40	22.1	5 S	8.88	8
9	4.87	1	0.43	4.54	1	0.38	23.4	2	4.04	9
10	4.78	1	0.41	4.51	1	0.39	16.6	2	3.21	10
11	4.82	1	0.40	5.18	2	1.06	16.4	2	2.83	11
12	4.68	1	0.38	5.01	1	0.43	16.1	2 S	2.81	12
13	4.38	1	0.38	4.42	1	0.38	13.4	2	2.32	13
14	4.36	1	0.38	4.19	1	0.38	12.1	2	2.09	14
15	4.47	1	0.39	4.08	1	0.38	21.6	7 S	13.1	15
16	4.76	1	0.41	3.88	0	0	19.5	2	3.37	16
17	4.46	1	0.38	3.81	0 S	0	15.5	2	2.70	17
18	4.28	1	0.37	4.10	3	1.06	14.3	2 S	2.47	18
19	4.17	1	0.36	8.82	7 S	5.21	12.4	2	2.14	19
20	4.10	1	0.35	8.54	1	0.67	11.3	2	1.95	20
21	3.81	1	0.34	5.70	1	0.48	10.5	2	1.81	21
22	3.78	1	0.32	6.71	1	0.58	9.77	2	1.68	22
23	3.88	1	0.32	19.3	7	11.7	9.26	2	1.60	23
24	3.84	1	0.31	21.6	1	1.67	8.13	1	0.78	24
25	3.71	1	0.32	17.8	1 S	1.54	8.28	1	0.80	25
26	3.62	1	0.31	25.8	4	8.88	11.8	1	1.00	26
27	3.84	1	0.33	18.7	1	1.70	16.7	1	1.38	27
28	3.63	1	0.31	14.4	1 S	1.24	15.0	2 S	2.69	28
29	3.37	1	0.28	12.7	1	1.10	13.0	2	2.25	29
30	3.33	1	0.28	11.0	1	0.88	11.2	1	0.87	30
31	3.23	1	0.36	10.2	1	0.88				31
TOTAL	144.24		13.11	285.58		84.33	553.32		418.16	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	12.1	4	4.18	80.8	3 S	13.1	21.0	2 S	3.83	1
2	88.7	25	191	40.0	2 S	6.91	22.5	2 S	3.68	2
3	32.3	3 S	8.37	34.3	2 S	5.93	22.0	2 S	3.60	3
4	33.0	2	5.70	31.7	2 S	5.48	19.7	2 S	3.40	4
5	83.6	9	49.6	28.4	2 S	4.91	19.1	2 S	3.30	5
6	39.5	1 S	3.45	48.5	5 S	21.4	31.8	3	8.24	6
7	28.7	1	2.57	44.6	3 S	11.6	25.3	2	4.37	7
8	24.6	1	2.14	35.8	3 S	9.23	21.2	2	3.66	8
9	23.6	1	2.04	30.9	2 S	5.34	18.0 B	2	3.11	9
10	22.4	1	1.94	27.4	2 S	4.73	16.0 B	2	2.76	10
11	20.6	1	1.80	26.1	2 S	4.34	14.5 B	2	2.51	11
12	19.3	1 S	1.67	25.2	3 S	8.63	13.1 B	2	2.26	12
13	17.8	1	1.56	42.3	5 S	21.8	12.3 B	2	2.11	13
14	18.8	1	1.45	31.2	2 S	5.38	11.3 B	2	1.95	14
15	16.3	2	2.84	28.6	1 S	2.30	10.7 B	2	1.85	15
16	14.2	2	2.45	23.0	1 S	1.99	10.0 B	2	1.73	16
17	13.3	2 S	2.30	20.9	2 S	3.61	9.80 B	2	1.68	17
18	12.3	2	2.13	24.5	4 S	8.47	9.20 B	2	1.58	18
19	13.6	2	2.36	75.8	10 S	65.8	8.70 B	2	1.50	19
20	13.0	3	3.37	41.0	3 S	10.8	8.30 B	2	1.43	20
21	13.0	3	3.37	48.2	5 S	20.8	8.00 B	2	1.38	21
22	36.2	6 S	19.8	88.7	7 S	84.3	7.85 B	2	1.32	22
23	46.3	5	20.8	53.8	2 S	9.30	7.40 B	2	1.28	23
24	35.0	2	4.32	45.0	2 S	7.78	7.10 B	2	1.23	24
25	20.8	1 S	1.80	42.6	2 S	7.38	6.80 B	2	1.18	25
26	34.7	1	3.13	37.6	2 S	8.63	6.60 B	2	1.14	26
27	35.1	1	3.17	32.2	2 S	5.58	6.40 B	2	1.11	27
28	20.8	1	1.81	28.1	2 S	4.68	6.10 B	2	1.05	28
29	30.3	4	10.4	25.2	2 S	4.35	5.95 B	2	1.03	29
30	81.8	8	71.2	23.0	2 S	3.97	5.75 B	2 S	0.99	30
31	48.0	1 S	4.15				5.60 B	2	0.97	31
TOTAL	894.0		384.80	1 134.2		344.17	387.65		71.44	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	PERCENT SILT	PERCENT CLAY
JAN 15	10:40	0.0	8.14 B	5.0 X	DH48	3	120														
FEB 24	16:00	0.0	4.66 B	5.0 X	DH48	5															
APR 22	13:45	3.5	182	15.0	D49	23															
APR 23	16:00	4.0	118	15.0	D49	20															
APR 24	14:35	5.5	107	15.0	D49	11															
APR 25	15:55	5.0	104	15.0	D49	1															
APR 27	10:00	5.5	89.7	15.0	D49	18															
APR 28	15:45	7.5	58.4	15.0	D49	2															
APR 29	14:35	5.5	51.6	15.0	D49	2	103														
APR 30	15:05	5.0	84.3	15.0	D49	2															
MAY 04	10:00	8.5	47.5	15.0	D49	1															
MAY 05	15:45	9.5	47.2	15.0	D49	1															
MAY 08	10:25	9.0	72.9	15.0	D49	1															
MAY 10	15:45	10.5	52.5	15.0	D49	1															
MAY 14	08:35	6.0	44.5	15.0	D49	2															
MAY 17	20:35	9.0	49.2	15.0	D49	1															
MAY 20	09:45	8.5	25.6	15.0	D49	2															
MAY 29	20:15	10.0	16.1	15.0	D49	1															
JUN 08	19:15	15.0	8.28	5.0 X	DH48	3															
JUN 12	14:50	9.0	8.47	5.0 X	DH48	5															
JUN 14	14:10	12.0	12.7	5.0 X	DH48	1															
JUN 23	18:40	19.5	6.87	5.0 X	DH48	19															
JUN 30	14:50	11.0	8.19	5.0 X	DH48	1															
JUL 08	20:15	23.0	5.15	5.0 X	DH48	1															
AUG 01	15:00	14.0	8.82	5.0 X	DH48	1															
AUG 07	13:10	21.5	5.04	5.0 X	DH48	1															
AUG 17	11:45	18.0	3.81	5.0 X	DH48	2															
AUG 19	20:50	18.0	8.50	5.0 X	DH48	1	132														
AUG 25	19:45	18.0	17.8	5.0 X	DH48	1															
AUG 28	12:00	15.5	13.9	15.0	D49	1															
SEP 02	15:15	14.5	40.5	15.0	D49	194															
SEP 03	18:30	14.0	33.3	15.0	D49	1															
SEP 05	16:00	18.0	22.6	5.0 X	DH48	1															
SEP 08	17:10	14.0	23.0	5.0 X	DH48	1															
SEP 12	12:15	13.0	14.3	5.0 X	DH48	1															
SEP 15	09:30	14.0	18.2	5.0 X	DH48	1															
SEP 18	18:25	13.5	13.6	5.0 X	DH48	2															
SEP 28	14:50	11.0	15.9	5.0 X	DH48	34															
OCT 03	10:50	8.0	32.5	15.0	D49	2															
OCT 08	15:10	12.5	36.0	15.0	D49	1															
OCT 12	14:25	8.0	18.9	5.0 X	DH48	1															
OCT 17	18:55	8.0	12.8	5.0 X	DH48	2															
OCT 22	12:30	10.0	20.1	5.0 X	DH48	3															
OCT 25	14:00	10.0	20.5	5.0 X	DH48	1															
OCT 31	10:40	4.0	42.3	15.0	D49	1															
OCT 31	12:22		48.0	5.0 X	PS82	1															
NOV 01	12:22		50.5	5.0 X	PS82	1															
NOV 02	12:22		40.0	5.0 X	PS82	2															
NOV 03	12:22		34.3	5.0 X	PS82	1															
NOV 04	12:22		31.7	5.0 X	PS82	1															
NOV 05	12:22		28.5	5.0 X	PS82	3															
NOV 05	12:30	5.0	28.5	5.0 X	DH48	3															
NOV 06	12:22		49.5	5.0 X	PS82	3															
NOV 07	12:22		44.5	5.0 X	PS82	7															
NOV 08	12:22		35.6	5.0 X	PS82	7															
NOV 09	12:22		30.9	5.0 X	PS82	4															
NOV 10	12:22		27.4	5.0 X	PS82	5															
NOV 11	12:22		28.1	5.0 X	PS82	8															
NOV 12	12:22		26.2	5.0 X	PS82	3															
NOV 13	12:22		42.3	5.0 X	PS82	8															
NOV 14	12:22		31.2	5.0 X	PS82	2															
NOV 14	14:35	4.0	28.7	5.0 X	DH48	1															
NOV 15	12:22		26.6	5.0 X	PS82	4															
NOV 16	12:22		23.0	5.0 X	PS82	3															
NOV 17	12:22		20.8	5.0 X	PS82	6															
NOV 17	15:45	3.0	21.0	5.0 X	DH48	3	85														
NOV 18	12:22		24.5	5.0 X	PS82	1															
NOV 19	12:22		75.8	5.0 X	PS82	3															
NOV 19	16:00	4.0	87.8	5.0 X	DH48	4															
NOV 20	12:22		41.0	5.0 X	PS82	4															
NOV 21	12:22		48.2	5.0 X	PS82	2															
NOV 22	12:22		89.7	5.0 X	PS82	5															
NOV 23	12:22		53.8	5.0 X	PS82	29															
NOV 24	12:22		45.0	5.0 X	PS82	1															
NOV 25	12:22		42.8	5.0 X	PS82	2															
NOV 25	15:45	5.0	42.5	5.0 X	DH48	3															
NOV 26	12:22		37.8	5.0 X	PS82	3															
NOV 27	12:22		32.2	5.0 X	PS82	2															
NOV 28	12:22		26.1	5.0 X	PS82	4															
NOV 29	12:22		25.2	5.0 X	PS82	4															
NOV 30	12:22		23.0	5.0 X	PS82	3															
DEC 01	12:22		21.0	5.0 X	PS82	5															
DEC 02	12:22		22.5	5.0 X	PS82	2															
DEC 03	12:22		22.0	5.0 X	PS82	5															
DEC 03	13:50	4.0	22.3	5.0 X	DH48	2															
DEC 04	12:22		18.7	5.0 X	PS82	6															
DEC 06	12:22		19.1	5.0 X	PS82	7															
DEC 09	11:50	2.0	18.0 B	5.0 X	DH48	3															
DEC 18	10:20	0.0	9.20 B	5.0 X	DH48	1															
DEC 30	12:22		5.75	5.0 X	PS82	8															

NOTE : SINGLE VERTICAL LOCATED AT 35.0 METRES FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1979	-PPP--PCCCCC	MANUAL	12	APR 25	1	JUL 10 *	87.4	NOV 11	1 030	---	---	---
1980	CCCCCCCCCCCC	MANUAL	16	OCT 13	1	FEB 25	341	NOV 08	3 830	10.5	10.5	---
1981	CCCCCCCCCCCC	MANUAL	27	JUL 28	1	JAN 02	270	DEC 04	4 800	13.4	12.0	12.1
1982	CCCCCCCCCCCC	MANUAL	28	NOV 05	1	MAY 19	531	APR 30	7 630	21.4	18.1	21.8
1983	CCCCCCCCCCCC	MANUAL	28	SEP 23	1	JAN 10	382	JAN 13	9 450	25.9	17.8	19.9
1984	CCCCCCCCCCCC	MANUAL	83	JUL 17	1	NOV 12	238	MAY 18	9 870 *	26.4	19.5	18.6
1985	CCCCCCCCCCCC	MANUAL	102	JUN 7	1	MAR 19	1 980	JUN 07 *	9 240	25.3	20.5	13.7
1986	CCCCCCCCCCCC	MANUAL	33	FEB 27	1	MAY 12	307	APR 17	5 030	13.6	19.6	13.2
1987	CCCCCCCCCCCC	DUAL	194	SEP 2 *	1	APR 25	591	APR 19	3 880	10.7	18.4	13.5

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

LOCATION: LAT 48 06 33 N LONG 58 47 04 W
DRAINAGE AREA: 72.0 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

REMARKS:

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 13	14:05	0.0	0.880	8.0	DH48	6															
FEB 25	13:40	0.0	0.508 B	8.0	DH48	1															
APR 07	12:50	5.0	8.72	8.0	DH48	13															
JUN 02	11:30	10.0	1.11	8.0	DH48	18															
AUG 12	13:55	20.0	0.217	8.0	DH48	6															
NOV 05	11:10	3.0	1.78	8.0	DH48	1															
NOV 05	14:10	4.5	18.3	8.0	DH48	5															

NOTE : SINGLE VERTICAL LOCATED AT 8.0 METRES FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1981	-------PPPPP	MANUAL	41	DEC 18	2	AUG 30	---	---	---	---	---	---
1982	CCCCCCCCCCCC	MANUAL	40	APR 30	1	FEB 11 *	210	APR 30	1 130	3.09	3.09	---
1983	CCCCCCCCCCCC	MANUAL	58	JAN 13	1	MAY 18	245	JAN 13	1 920 *	5.25	4.17	25.9
1984	CCCCCCCCCCCC	MANUAL	61	APR 7	1	APR 25	82.0	FEB 05	948	2.59	3.84	22.4
1985	CCCCCCCCCCCC	MANUAL	50	DEC 26	1	MAY 1	59.1	MAY 19	821	2.25	3.30	20.4
1986	CCCCCCCCCCCC	MANUAL	184	JAN 28 *	1	APR 28	892	JAN 28 *	1 700	4.66	3.57	18.5
1987	PP-P-P-P--P-	MANUAL	18	JUN 2	1	FEB 25	10.5	APR 07	17.5	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NORTHEAST BROOK NEAR ROBDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 50 55 44 N LONG 55 09 44 W
DRAINAGE AREA: 300 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 311 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.318 B	1	0.03	0.470 B	1	0.04	0.885 B	1	0.08	1
2	0.306 B	1	0.03	0.430 B	1	0.04	0.800 B	1	0.08	2
3	0.287 B	1	0.03	0.410 B	1	0.04	0.840 B	1	0.08	3
4	0.269 B	1	0.02	0.380 B	1	0.03	0.800 B	1	0.04	4
5	0.282 B	1	0.02	0.350 B	1	0.03	0.450 B	1	0.04	5
6	0.272 B	1	0.02	0.330 B	1	0.03	0.402 B	1	0.03	6
7	0.266 B	1	0.02	0.310 B	1	0.03	0.375 B	1	0.03	7
8	0.257 B	1	0.02	0.280 B	1	0.03	0.340 B	1	0.03	8
9	0.250 B	1	0.02	0.270 B	1	0.02	0.310 B	1	0.03	9
10	0.245 B	1	0.02	0.250 B	1	0.02	0.290 B	1	0.03	10
11	0.236 B	1	0.02	0.230 B	1	0.02	0.285 B	1	0.02	11
12	0.231 B	1	0.02	0.210 B	1	0.02	0.245 B	1	0.02	12
13	0.224 B	1 S	0.03	0.200 B	1	0.02	0.238 B	1	0.02	13
14	0.219 B	1	0.02	0.180 B	1	0.02	0.212 B	1	0.02	14
15	0.214 B	1	0.02	0.170 B	1	0.01	0.188 B	1	0.02	15
16	0.208 B	1	0.02	0.150 B	1	0.01	0.188 B	1	0.02	16
17	0.203 B	1	0.02	0.130 B	1	0.01	0.180 B	1	0.02	17
18	0.189 B	1	0.02	0.120 B	1	0.01	0.340 B	1	0.03	18
19	0.186 B	1	0.02	0.110 B	1	0.01	0.800 B	1	0.07	19
20	0.180 B	1	0.02	0.100 B	1	0.01	1.78 B	1	0.15	20
21	0.187 B	1	0.02	0.108 B	1	0.01	1.45 B	1	0.13	21
22	0.182 B	1	0.02	0.250 B	1	0.02	1.18 B	1	0.10	22
23	0.770 B	2	0.13	0.370 B	1	0.03	0.820 B	1	0.08	23
24	0.730 B	2	0.13	0.745 B	2	0.13	0.783 B	1 S	0.07	24
25	0.700 B	1	0.08	1.05 B	2	0.18	0.880 B	2	0.12	25
26	0.650 B	2	0.11	0.920 B	1	0.08	0.830 B	2	0.11	26
27	0.620 B	2	0.11	0.650 B	1	0.07	0.670 B	2	0.10	27
28	0.580 B	1	0.05	0.750 B	1	0.08	0.840 B	2	0.15	28
29	0.550 B	1	0.05				1.40 B	2	0.24	29
30	0.520 B	1	0.04				2.20 B	2	0.38	30
31	0.490 B	1	0.04				3.20 B	2	0.55	31
TOTAL	10.881		1.19	10.134		1.03	32.719		3.81	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	5.00 B	3	0.86	13.6	1 S	1.18	6.03	2	1.04	1
2	8.80 B	3	1.62	14.6	1 S	1.28	5.83	3 S	1.51	2
3	13.5 B	2	2.18	14.8	1 S	1.29	5.56	3	1.45	3
4	20.0 B	3	3.48	14.6	1 S	1.26	5.37	3 S	1.38	4
5	28.3	2	4.87	14.0	2 S	2.42	5.11	3	1.33	5
6	21.2	3	3.88	14.8	2 S	2.82	4.80	2 S	0.83	6
7	11.5	2	2.00	17.1	2	3.95	4.52	2	0.78	7
8	13.7	1 S	1.10	21.0	2 S	3.83	4.24	2	0.73	8
9	13.0	1 S	1.12	24.5	5 S	10.8	3.85	2	0.68	9
10	13.4	1 S	1.18	24.4	3 S	8.32	3.84	2	0.68	10
11	13.7	1 S	1.10	23.6	2 S	4.08	3.88	2	0.67	11
12	11.8	1	1.03	23.2	2 S	4.01	3.81	2	0.68	12
13	10.5	1 S	0.81	21.8	2 S	3.77	4.11	2 S	0.71	13
14	8.28	1	0.80	20.4	4 S	7.08	4.20	2	0.73	14
15	8.10	1 S	0.70	19.9	4	6.88	4.09	2	0.71	15
16	7.07	1 S	0.61	21.5	3 S	5.57	4.07	2	0.70	16
17	8.32	1 S	0.55	25.3	2 S	4.37	3.85	2	0.67	17
18	8.04	3 S	1.57	24.8	3 S	5.43	3.83	2	0.83	18
19	8.85	6 S	4.46	21.5	3 S	5.57	3.40	2	0.88	19
20	14.0	3 S	3.83	18.1	2	3.13	3.38	2	0.88	20
21	20.7	3 S	5.37	15.4	3 S	2.85	3.25	2 S	0.88	21
22	28.1	7 S	17.8	13.4	1	1.18	3.02	1 S	0.28	22
23	32.7	7	19.8	11.8	2	2.00	2.75	1 S	0.24	23
24	31.8	4 S	11.0	10.1	2 S	1.75	2.50	2	0.43	24
25	28.8	4 S	9.55	9.08	2 S	1.57	2.26	2	0.38	25
26	25.8	2 S	4.42	8.52	3 S	2.21	2.15	2	0.37	26
27	23.0	1 S	1.80	7.94	2	1.37	1.89	3 S	0.52	27
28	18.4	1 S	1.59	7.44	2	1.28	1.76	3	0.48	28
29	15.6	2 S	2.70	7.09	1	0.61	1.72	3	0.48	29
30	13.7	1 S	1.18	8.52	1 S	0.57	1.53	2	0.28	30
31				8.07	2 S	1.05				31
TOTAL	479.44		112.80	485.55		100.52	110.89		31.00	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

NORTHEAST BROOK NEAR ROBDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1987

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	1.84	2	0.27	0.380 E	1	0.03	0.087 A	2 S	0.01	1
2	1.82	2	0.28	0.320 E	1	0.03	0.141 A	3 S	0.04	2
3	1.47	1 S	0.13	0.280 E	1	0.02	0.149 A	3	0.04	3
4	1.38	1	0.12	0.245 E	1	0.02	0.158	3	0.04	4
5	1.31	1	0.11	0.210 E	1	0.02	0.183	3	0.05	5
6	1.26	1	0.11	0.188 E	1	0.02	0.178	3	0.05	6
7	1.15	1	0.10	0.185 E	1	0.01	0.170	3	0.04	7
8	1.12	1	0.10	0.140 E	1	0.01	0.188	2	0.03	8
9	1.01	1	0.09	0.120 E	1 S	0.01	0.193	2	0.03	9
10	0.948	2	0.16	0.088 E	1	0.01	0.188	2 S	0.03	10
11	0.882	2	0.15	0.103 E	1	0.01	0.188	2	0.03	11
12	0.848	1 S	0.07	0.090 E	1	0.01	0.193	2	0.03	12
13	0.825	1	0.07	0.080 E	1	0.01	0.185	3 S	0.05	13
14	0.807	1	0.07	0.070 E	1	0.01	0.207	2 S	0.04	14
15	0.785	1	0.07	0.060 E	1	0.01	0.250	2	0.04	15
16	0.763	1	0.06	0.050 E	1	0	0.288	2	0.05	16
17	0.720 E	1	0.06	0.040 E	1	0	0.322	2	0.05	17
18	0.680 E	2	0.11	0.030 E	1	0	0.459	2	0.08	18
19	0.800 E	2 S	0.10	0.050 E	1	0	0.512	2	0.09	19
20	0.830 E	2	0.08	0.080 E	1	0.01	0.526	2	0.09	20
21	0.480 E	2	0.08	0.173 E	1	0.01	0.518	2	0.09	21
22	0.380 E	2	0.08	0.150 E	2	0.03	0.521	2	0.09	22
23	0.244 E	1	0.02	0.130 E	2 S	0.02	0.530	2	0.09	23
24	0.308 E	1	0.02	0.122 E	2	0.02	0.557	2	0.10	24
25	0.380 E	1	0.02	0.117 A	2 S	0.02	0.612	2	0.11	25
26	0.280 E	1	0.02	0.100 A	4 S	0.03	0.525	2	0.11	26
27	0.312 E	1	0.03	0.100 A	5 S	0.04	0.595	2	0.10	27
28	0.330 E	1	0.03	0.100 A	5 S	0.04	0.594	2	0.10	28
29	0.380 E	1	0.03	0.088 A	5 S	0.04	0.580	2	0.10	29
30	0.380 E	1	0.03	0.084 A	4 S	0.03	0.585	2	0.10	30
31	0.420 E	1	0.04	0.070 A	3 S	0.02				31
TOTAL	23.780		2.70	4.018		0.54	10.484		1.81	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.884	2	0.10	5.51	2	0.95	8.84	1	0.57	1
2	0.888	2	0.12	5.25	1	0.45	8.50	1	0.82	2
3	0.883	2	0.12	5.00	1	0.43	10.3	1	0.88	3
4	0.739	3	0.13	4.88	1	0.41	10.4	1	0.90	4
5	0.822	2	0.16	4.28	1	0.37	10.0	1	0.88	5
6	1.10	2	0.19	4.21	1	0.38	11.8	1	1.00	6
7	1.24	2	0.21	4.61	1	0.39	13.6	1	1.18	7
8	1.47	2	0.25	4.70	1	0.41	14.2	1	1.23	8
9	1.68	2	0.28	4.89	1	0.43	13.1	1	1.13	9
10	1.88	3	0.44	5.01	1	0.43	11.8	1	1.02	10
11	1.89	3	0.46	4.74	1	0.41	10.5	1	0.91	11
12	1.88	3	0.41	4.47	1	0.39	9.28	1	0.80	12
13	1.48	3	0.38	4.20 B	2	0.73	8.57	1	0.74	13
14	1.37	3	0.36	3.95 B	1	0.34	7.77	1	0.67	14
15	1.22	2	0.21	3.70 B	1	0.32	9.03	1	0.62	15
16	1.18	3	0.31	3.50 B	1	0.30	3.57	1	0.31	16
17	1.14	3	0.30	3.35 B	2	0.58	3.28	1	0.20	17
18	1.08	2	0.18	3.20 B	1	0.28	3.50	1	0.30	18
19	1.14	3	0.30	3.35 B	1	0.28	6.02	1	0.88	19
20	1.15	2	0.20	3.60 B	1	0.31	7.80 B	1	0.87	20
21	1.12	2	0.19	4.40 B	3	1.14	7.10 B	1	0.61	21
22	1.21	3	0.31	8.88	4	3.41	8.80 B	1	0.88	22
23	2.18	4	0.78	14.5	3	3.78	8.00 B	1	0.62	23
24	2.88	3	0.44	15.8	3	4.10	8.60 B	2	0.88	24
25	3.74	3	0.47	15.0	2	3.88	8.10 B	1	0.64	25
26	3.41	3	0.88	13.4	2	2.32	4.70 B	2	0.81	26
27	4.41	3	1.14	11.5	2	1.88	4.30 B	1	0.37	27
28	4.74 A	3	1.23	9.88	2	1.72	4.00 B	1	0.35	28
29	5.00	3	1.30	8.61	2	1.49	3.80 B	1	0.33	29
30	5.67	3 S	0.88	7.38	1	0.84	3.65 B	1	0.31	30
31	5.72	2	0.89				3.40 B	1	0.29	31
TOTAL	82.384		13.67	186.82		31.74	232.43		20.85	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NORTHEAST BROOK NEAR ROBDICKTON - STATION NO. 02YD002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 13	15:00	0.0	0.223 B	8.0	DH48	5															
MAR 24	12:15	0.0	0.880 B	8.0	DH48	1	88														
APR 08	15:35	0.5	13.2	8.0	DH48	1															
APR 09	15:10	0.5	13.1	8.0	DH48	1															
APR 10	13:50	1.0	13.8	8.0	DH48	1															
APR 11	12:50	1.0	13.1	8.0	DH48	1															
APR 13	17:10	1.5	10.6	8.0	DH48	1															
APR 15	15:10	1.0	8.30	8.0	DH48	1															
APR 16	14:20	2.0	7.21	8.0	DH48	1															
APR 17	12:25	2.5	8.52	8.0	DH48	1															
APR 18	10:35	2.0	8.01	8.0	DH48	3	90														
APR 18	13:30	2.0	8.91	8.0	DH48	6															
APR 20	16:20	3.0	15.0	8.0	DH48	2															
APR 21	13:15	2.5	20.8	8.0	DH48	3															
APR 22	14:30	2.5	29.7	8.0	DH48	6															
APR 24	16:30	3.5	31.8	8.0	DH48	3															
APR 25	19:10	3.0	28.4	8.0	DH48	4															
APR 26	17:10	3.0	26.4	8.0	DH48	1															
APR 27	16:20	3.0	21.8	8.0	DH48	1															
APR 29	16:15	4.0	15.8	8.0	DH48	2															
APR 30	17:20	4.0	13.7	8.0	DH48	1															
MAY 01	17:15	4.5	13.8	8.0	DH48	1															
MAY 02	16:50	4.5	14.8	8.0	DH48	1															
MAY 03	16:45	5.0	14.8	8.0	DH48	1															
MAY 04	17:20	5.0	14.5	8.0	DH48	1															
MAY 05	17:15	5.0	14.0	8.0	DH48	2															
MAY 06	17:15	5.5	14.5	8.0	DH48	2															
MAY 08	17:15	6.5	21.0	8.0	DH48	2															
MAY 09	18:50	6.0	24.5	8.0	DH48	2															
MAY 10	18:40	5.5	24.4	8.0	DH48	7															
MAY 11	17:25	7.0	23.6	8.0	DH48	2	73														
MAY 12	15:50	8.0	23.2	8.0	DH48	2															
MAY 13	17:25	7.0	21.8	8.0	DH48	2															
MAY 14	19:15	7.5	20.4	8.0	DH48	5															
MAY 15	13:20	7.0	21.5	8.0	DH48	3															
MAY 17	15:45	7.0	25.3	8.0	DH48	2															
MAY 18	17:10	8.5	24.8	8.0	DH48	3															
MAY 19	17:10	8.0	21.5	8.0	DH48	2															
MAY 21	17:15	7.5	16.1	8.0	DH48	1															
MAY 24	17:15	7.5	10.1	8.0	DH48	2	84														
MAY 25	16:50	10.0	9.08	8.0	DH48	5															
MAY 28	18:45	8.5	8.52	8.0	DH48	3															
MAY 30	14:20	10.5	6.82	8.0	DH48	1															
JUN 02	17:20	8.5	5.83	8.0	DH48	3															
JUN 08	18:20	13.0	4.80	8.0	DH48	2															
JUN 13	14:55	13.0	4.11	8.0	DH48	2															
JUN 21	15:35	15.0	3.25	8.0	DH48	2															
JUN 23	10:00	15.5	2.75	8.0	DH48	1	89														
JUN 27	17:20	17.0	1.89	8.0	DH48	3															
JUL 03	18:50	17.5	1.47	8.0	DH48	1															
JUL 12	15:50	20.5	0.646	8.0	DH48	6															
JUL 19	17:10	22.5	0.800 E	8.0	DH48	2															
AUG 09	15:20	24.0	0.120 E	8.0	DH48	2															
AUG 23	10:00	11.5	13.0 E	8.0	DH48	2															
AUG 25	18:50	18.0	0.117 A	8.0	DH48	8															
AUG 26	17:35	15.0	0.100 A	8.0	DH4	5															
AUG 27	17:35	15.0	0.105 A	8.0	DH4	4															
AUG 28	16:50	17.0	0.100 A	8.0	DH48	4															
AUG 29	16:50	19.0	0.088 A	8.0	DH48	4															
AUG 30	17:10	16.0	0.084 A	8.0	DH48	4															
AUG 31	16:25	18.0	0.070 A	8.0	DH48	3															
SEP 01	16:50	15.0	0.067 A	8.0	DH48	1															
SEP 02	16:30	15.5	0.141 A	8.0	DH48	3															
SEP 10	16:05	13.5	0.188	8.0	DH48	2	130														
SEP 13	16:05	16.5	0.185	8.0	DH48	3															
SEP 14	16:50	16.0	0.207	8.0	DH48	7															
OCT 30	12:10	8.0	5.67	8.0	DH48	2															

NOTE : SINGLE VERTICAL IS UNDETERMINED FOR 1987

DISCHARGE SYMBOL(S): A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1981	------CCCCCC	MANUAL	24	DEC 08	1	AUG 08 *	43.7	DEC 11	919	---	---	---
1982	CCCCCCCCCCCC	MANUAL	21	JAN 08	2	MAR 05	45.8	JUN 07	1 520 *	4.18	4.18	---
1983	CCCCCCCCCCCC	MANUAL	20	JAN 14	2	MAR 02	22.3	APR 30	1 130	3.11	3.86	16.7
1984	CCCCCCCCCCCC	MANUAL	52	FEB 11 *	3	DEC 28	72.1	MAY 16	1 530	4.14	3.81	8.2
1985	CCCCCCCCCCCC	MANUAL	28	MAY 24	1	APR 12	99.8	MAY 24 *	748	2.05	3.37	18.0
1986	CCCCCCCCCCCC	MANUAL	10	SEP 12	1	APR 20	46.7	APR 13	448	1.23	2.84	19.7
1987	CCCCCCCCCCCC	MANUAL	9	AUG 25	1	MAR 24	19.8	APR 23	311	0.85	2.59	22.7

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH * - EXTREME FOR PERIOD OF RECORD

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH005

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 47 31 47 N LONG 52 44 34 W
DRAINAGE AREA: 82.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 966 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	1.38	1	0.12	1.00 B	5	0.43	0.975 B	10	0.84	1
2	1.13 B	1	0.10	0.00 B	15	10.4	0.925 B	10	0.80	2
3	0.970 B	2	0.17	7.87	11	7.18	0.875 B	8	0.68	3
4	1.50 B	7	0.81	5.77	6 S	3.99	0.838 B	8 S	0.66	4
5	2.38	5	1.03	4.33	7	2.62	0.795 B	9	0.82	5
6	1.84	5	0.84	3.30	8	1.71	0.788 B	8	0.83	6
7	1.70 B	5	0.73	2.78	6	1.43	0.735 B	8	0.81	7
8	2.50 B	5	1.08	2.19	6	1.14	0.705 B	8	0.48	8
9	3.57	8	1.90	1.80 B	8	0.93	0.675 B	7	0.41	9
10	2.58	5	1.11	1.57 B	9	1.22	0.650 B	7	0.39	10
11	2.15	5	0.83	3.64	12	3.98	0.630 B	7	0.37	11
12	3.00 B	7	1.61	3.29	10	2.84	0.595 B	8	0.31	12
13	4.23	7	2.56	2.69	10	2.32	0.575 B	8	0.30	13
14	2.99	6	1.55	2.12	10	1.83	0.555 B	5	0.24	14
15	2.48	6	1.38	1.80 B	10	1.56	0.540 B	5	0.23	15
16	1.62 B	5	0.70	1.61 B	10	1.38	1.40 B	10	1.21	16
17	1.36 B	5	0.60	1.47 B	10	1.27	8.28	15	6.86	17
18	1.27 B	5	0.55	1.31 B	10	1.13	6.30	28	14.2	18
19	1.13 B	4	0.39	1.20 B	10	1.04	14.7	82 S	78.7	19
20	1.00 B	4	0.35	1.10 B	10	0.95	17.4	57	85.7	20
21	0.880 B	3	0.23	1.00 B	10	0.86	17.1	39	57.8	21
22	0.780 B	3 S	0.20	0.930 B	10	0.80	13.6	23	27.0	22
23	0.700 B	3	0.18	0.870 B	10	0.75	9.76	16 S	13.6	23
24	1.85 B	12	2.08	0.800 B	10	0.69	7.26	15	9.41	24
25	4.95	10	4.28	0.940 B	10	0.81	5.59	13	6.28	25
26	3.54	5	1.63	1.18 B	11	1.13	5.10	11	4.85	26
27	2.28	5	0.86	1.10 B	11	1.05	5.04	9 S	3.92	27
28	1.74 B	5	0.77	1.01 B	10	0.87	7.23	9	5.62	28
29	1.48 B	5	0.63				8.22	9	7.17	29
30	1.28 B	5	0.58				6.82	9 S	5.38	30
31	1.11 B	5	0.48				5.78	5	2.80	31
TOTAL	81.880		30.84	88.850		88.33	148.824		337.37	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	8.84	3 S	1.16	12.4	17 S	18.3	0.811	8	0.83	1
2	10.7	8	5.55	8.54	10	4.78	0.933	7	0.56	2
3	27.1	40 S	83.7	4.10	6	3.63	0.830	7	0.50	3
4	20.3	18 S	27.9	3.56	5	1.88	0.881	5	0.45	4
5	13.0	9	10.1	3.03	4 S	1.05	0.820	5 S	0.43	5
6	10.7	9	8.32	2.55	3	0.88	0.782	5	0.34	6
7	8.87	11 S	8.43	2.37	3	0.59	0.733	5	0.32	7
8	14.1	38 S	42.6	2.15	3	0.88	0.705	5	0.32	8
9	17.4	20 S	30.1	3.80	3	0.63	0.799	4	0.26	9
10	11.9	13	13.4	7.83	13	8.78	0.817	4	0.28	10
11	7.19	10	8.21	8.84	10	7.72	0.885	3 S	0.17	11
12	5.36	8	3.78	4.30	6 S	2.23	0.881	3	0.14	12
13	4.44	3 S	1.15	2.89	5	1.55	0.844	4	0.18	13
14	3.97	4 S	1.37	2.38	5	1.22	0.575	4	0.20	14
15	5.25	5	2.72	2.00	5	1.04	0.528	5	0.23	15
16	7.30	10	8.31	1.77	5	0.82	0.682	11	0.53	16
17	5.88	8	3.88	3.15	9	2.48	0.621	10	0.45	17
18	7.13	11	8.78	2.81	9	2.19	0.486	10	0.43	18
19	13.5	16	31.0	2.00	8	1.56	0.432	10 S	0.37	19
20	9.21	12	9.55	1.69	8	1.17	0.393	9	0.31	20
21	8.98	8 S	3.61	1.70	6 S	1.18	0.387	8	0.27	21
22	5.61	7 S	5.61	1.43	7	0.88	0.348	8	0.24	22
23	5.56	8	3.69	1.58	6	0.81	0.341	7	0.21	23
24	4.50	5	1.94	1.40	6	0.73	0.380	5	0.18	24
25	8.42	9	4.99	1.28	5 S	0.64	0.384	5	0.18	25
26	4.86	8	3.15	1.15	5	0.80	0.394	4	0.14	26
27	3.50	6	2.42	1.11	5	0.48	0.348	3	0.09	27
28	3.84	7 S	1.72	1.12	7	0.68	0.313	3	0.08	28
29	2.43	6 S	1.26	1.20	8	0.83	0.328	2 S	0.08	29
30	6.82	18 S	13.4	1.02	8	0.78	0.338	1	0.03	30
31				0.911	6	0.83				31
TOTAL	284.57		344.17	81.811		89.84	17.042		8.81	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM005

SUSPENDED SEDIMENT FOR 1987

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.372	1	0.03	0.312	3	0.08	0.225	2	0.04	1
2	0.337	1	0.03	0.262	3	0.07	0.720	7	0.44	2
3	0.284	1	0.02	1.29	4	0.48	0.420	9	0.33	3
4	0.270	1	0.02	0.590	4	0.26	0.281	8	0.23	4
5	1.80	6	0.93	0.487	4	0.17	0.357	8	0.25	5
6	2.31	4	0.80	0.382	3	0.10	0.303	8	0.21	6
7	1.18	3	0.30	0.307	4	0.11	0.283	8	0.23	7
8	0.784	3	0.20	0.294	4	0.10	0.388	8	0.28	8
9	0.884	3	0.18	0.286	3	0.07	0.398	8	0.27	9
10	0.822	3	0.16	0.217	4	0.07	0.333	9 S	0.26	10
11	0.488	2	0.08	0.226	4	0.08	0.273	8	0.19	11
12	0.443	3	0.11	0.247	5	0.11	0.283	7	0.19	12
13	0.382	3	0.10	0.276	5	0.14	0.249	8	0.13	13
14	0.356	3 S	0.09	0.276	5	0.14	0.230	8	0.10	14
15	0.374	3	0.10	0.265	5	0.14	0.615	9 S	0.83	15
16	0.601	4	0.14	0.277	5	0.14	0.780	13 S	0.82	16
17	0.373	4	0.13	0.271	5 S	0.14	0.434	9 S	0.34	17
18	0.315	3	0.08	0.278	5	0.12	0.838	9 S	0.73	18
19	0.305	3	0.08	0.345	5	0.15	0.986	9	0.77	19
20	0.288	3	0.08	0.227	5	0.10	0.684	8	0.48	20
21	0.282	4	0.10	0.248	4	0.09	0.556	8	0.38	21
22	0.285	5	0.12	0.288	4	0.10	0.516	7	0.31	22
23	0.241	5	0.10	0.248	3	0.08	0.458	8	0.34	23
24	0.248	5 S	0.11	0.738	5	0.32	0.367	8 S	0.18	24
25	0.313	5	0.14	0.341	4	0.12	0.351	7	0.21	25
26	0.384	5	0.17	0.251	4	0.08	1.12	10	0.87	26
27	0.428	5	0.18	0.262	4	0.08	1.08	9	0.84	27
28	0.307	4	0.11	0.262	3 S	0.07	0.880	8 S	0.50	28
29	0.255	4	0.09	0.258	3	0.07	0.576	5	0.25	29
30	0.254	4	0.09	0.255	3	0.07	0.508	4 S	0.18	30
31	0.400	4	0.14	0.267	2	0.08				31
TOTAL	18.678		4.87	10.812		3.88	15.844		10.88	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	1.83	14	2.21	1.85	6	0.95	1.88	10	1.43	1
2	1.30	11	1.24	1.89	5	0.88	7.37	10 S	8.37	2
3	0.848	10	0.73	1.23	6	0.64	5.16	8	2.87	3
4	1.18	8	0.82	1.23	6	0.63	3.02	4	1.06	4
5	0.876	9	0.68	1.06	3	0.27	8.14	7	3.11	5
6	0.684	9	0.53	2.37	7	1.43	9.02	9	7.01	6
7	0.634	9	0.48	2.11	6	1.08	4.19	4 S	1.45	7
8	0.830	8	0.64	1.81	5	0.85	2.82	4	1.01	8
9	1.02	8 S	0.71	1.40	5 S	0.60	1.87	3	0.51	9
10	0.730	7	0.44	1.38	4	0.47	1.84	3	0.43	10
11	0.890	8	0.38	1.20	4	0.41	1.63	3	0.40	11
12	0.534	4	0.18	3.22	7	1.85	1.63	4	0.88	12
13	0.488	3 S	0.13	8.55	6	4.53	4.28	4	1.47	13
14	0.469	4	0.15	3.04	3	0.78	5.63	5	2.43	14
15	0.418	5	0.18	2.51	4	0.87	4.13	2	0.71	15
16	0.452	5	0.23	2.04	5	0.88	2.68	3	0.46	16
17	0.413	5	0.21	1.67	4	0.54	1.85	2	0.32	17
18	0.378	7	0.23	1.36	4	0.48	1.55	2	0.27	18
19	0.380	8	0.27	1.55	4 S	0.58	1.39 B	3	0.34	19
20	0.407	8	0.32	1.28	4	0.46	1.32 B	2	0.31	20
21	0.337 A	11	0.32	1.26	3	0.32	1.12 B	2 S	0.18	21
22	1.28 A	48 S	5.36	3.41	10	2.86	1.02 B	2	0.18	22
23	1.42 A	17 S	2.08	3.77	13	4.23	0.880 B	2	0.17	23
24	0.674	9	0.52	2.21	14	2.67	0.900 B	2	0.18	24
25	0.732	9	0.58	1.73	13 S	1.84	0.880 B	2	0.18	25
26	1.68	41 S	5.95	1.67	12	1.73	0.820 B	2	0.14	26
27	1.84	12 S	1.80	1.36	11	1.27	0.780 B	1	0.07	27
28	0.894	8	0.62	1.13	10	0.98	0.780 B	2	0.13	28
29	0.635	8 S	0.38	1.00	8	0.68	0.740 B	2	0.13	29
30	1.12	8	0.48	0.948	7	0.57	0.680 B	1	0.08	30
31	0.827	6	0.33				1.09	1	0.08	31
TOTAL	28.098		28.44	58.848		38.32	77.830		33.59	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZN008

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)		TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 22	13:35	0.5	0.780	4.0		DH48	3	300														
FEB 04	13:40	0.5	5.66	4.0		DH48	7															
MAR 04	14:35	0.5	0.639	4.0		DH48	3															
MAR 19	14:30	0.5	18.4	4.0		DH48	68															
MAR 23	14:45	1.0	8.41	4.0		DH48	18															
MAR 27	15:25	1.5	5.18	4.0		DH48	9															
MAR 30	14:20	0.5	6.53	4.0		DH48	9	271														
APR 01	08:35	0.5	5.60	8.0	X	DH48	1															
APR 03	13:30	1.0	28.7	0.5	X	DH48	50															
APR 04	18:10	1.0	18.7	1.2	X	DH48	9															
APR 07	15:40	1.0	8.06	8.4		DH48	9	180														
APR 08	15:20	1.0	18.3	5.0	X	DH48	43															
APR 09	12:35	1.0	16.8	5.0	X	DH48	17															
APR 13	08:05	0.5	4.53	8.4		DH48	3															
APR 14	15:50	1.0	4.08	8.4		DH48	4															
APR 21	10:05	4.5	6.26	8.4		DH48	4															
APR 22	07:45	8.0	10.8	2.0	X	DH48	7															
APR 26	11:02	0.5	2.80	8.0	X	DH48	7															
APR 28	12:30	1.0	2.46	8.0	X	DH48	8															
APR 30	14:10	1.5	11.4	5.0	X	DH48	17															
MAY 01	15:00	10.0	9.85	3.0	X	DH48	15	101														
MAY 05	14:05	11.0	3.14	10LB	X	DH48	3															
MAY 12	14:40	15.0	4.19	10LB	X	DH48	6															
MAY 21	13:11	13.0	1.84	10LB	X	DH48	8															
MAY 25	14:00	13.5	1.24	10LB	X	DH48	5															
JUN 05	14:37	17.0	0.844	3.0	X	DH48	8															
JUN 11	14:15	16.0	0.636	3.0	X	DH48	3															
JUN 18	10:55	14.0	0.431	3.0	X	DH48	10															
JUN 25	12:50	14.0	0.385	3.0	X	DH48	2															
JUL 14	14:55	24.0	0.383	5.0	X	DH48	3															
JUL 24	15:05	21.0	0.258	8.0	X	DH48	5	199														
AUG 17	10:55	14.5	0.248	8.0	X	DH48	8															
AUG 26	10:30	15.0	0.276	8.0	X	DH48	3															
SEP 10	12:15	13.0	0.328	8.0	X	DH48	8															
SEP 15	08:00	12.0	0.211	8.0	X	DH48	6															
SEP 16	12:20	15.5	0.674	8.0	X	DH48	11															
SEP 17	12:17	14.5	0.413	8.0	X	DH48	9															
SEP 18	12:20	14.0	0.730	E	8.0	X	DH48	9														
SEP 24	13:50	14.0	0.348	8.0	X	DH48	8															
SEP 28	11:50	9.5	0.880	8.0	X	DH48	8															
SEP 30	14:33	15.0	0.477	8.0	X	DH48	4	191														
OCT 09	13:35	15.5	1.10	13.0	X	DH48	8															
OCT 13	12:33	9.0	0.457	E	22.0	X	DH48	3														
OCT 22	14:10	10.0	1.28	8.0	X	DH48	72															
OCT 23	14:40	8.0	1.23	6.0	X	DH48	10															
OCT 26	15:24	10.0	3.31	12.0		DH48	82															
OCT 27	15:05	8.5	1.87	12.0		DH48	7															
OCT 28	14:25	10.5	1.26	12.0		DH48	8															
NOV 09	11:50	5.5	1.31	12.0		DH48	5															
NOV 19	14:00	7.5	2.03	12.0		DH48	4															
NOV 25	14:15	5.5	1.72	12.0		DH48	13															
DEC 02	11:50	5.0	8.70	8.0		DH48	8															
DEC 07	13:40	4.0	4.14	8.0		DH48	4															
DEC 21	14:15	1.0	1.12	12.0		DH48	2															

NOTE : SINGLE VERTICAL IS UNDETERMINED FOR 1987

DISCHARGE SYMBOL(S): E - ESTIMATED
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	HISTORICAL STANDARD ERROR OF MEAN %
1978	----PCCCCCCC	MANUAL	57	SEP 28	8	JUL 05	40.0	DEC 19	308	---	---	---
1979	CCCCCCCCCCCC	MANUAL	303	APR 10	3	FEB 08	111	OCT 31	1 880	5.19	5.19	---
1980	CCCCCCCCCCCC	MANUAL	118	DEC 30	3	FEB 05	101	AUG 17	2 380	6.52	5.88	11.3
1981	CCCCCCCCCCCC	MANUAL	215	AUG 18	2	DEC 14	348	NOV 28	3 170 *	8.69	5.80	15.0
1982	CCCCCCCCCCCC	DUAL	94	SEP 19	2	FEB 12	158	SEP 19	1 320	3.63	6.01	17.6
1983	CCCCCCCCCCCC	DUAL	49	MAR 21	1	JAN 31 *	78.6	OCT 28	1 170	3.21	6.45	18.4
1984	CCCCCCCCCCCC	DUAL	97	APR 29	1	FEB 28	103	APR 14	1 080	2.95	6.03	18.2
1985	CCCCCCCCCCCC	MANUAL	142	APR 17	1	JAN 11	334	MAY 25	1 230	3.38	4.79	18.9
1986	CCCCCCCCCCCC	MANUAL	322	JUN 9 *	1	MAY 15	373	APR 11 *	1 370	3.78	4.88	18.3
1987	CCCCCCCCCCCC	MANUAL	83	OCT 26	1	APR 1	93.7	APR 03	886	2.68	4.64	18.1

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 44 56 59 N LONG 65 01 47 W
DRAINAGE AREA: 546 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 3 510 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	DAY
1	8.25 B	4 S	2.85	3.26 B			99.3	49 S	420	1
2	8.80 B	4	3.04	3.23 B			126	46 S	501	2
3	9.43 B	5	4.88	3.21 B			103	15 S	142	3
4	9.95 B	6 S	5.88	3.19 B			87.3	11 S	83.0	4
5	10.2 B	5	5.28	3.18 B			83.0	9 S	64.5	5
6	9.85 B	4	3.34	3.16 B			83.0	7 S	50.2	6
7	9.04 B	4	3.12	3.14 B			83.7	6 S	43.4	7
8	8.75 B	4 S	3.02	3.12 B			78.7	6 S	34.0	8
9	8.35 B	4	2.88	3.11 B			84.0	6 S	27.8	9
10	8.10 B	4	2.80	3.09 B			48.7	6 S	20.2	10
11	7.92 B	4 S	2.74	3.08 B			37.7	6	18.5	11
12	7.86 B	4	2.85	3.07 B			33.8	6 S	17.8	12
13	7.47 B	4	2.58	3.06 B			32.3	6 S	16.7	13
14	7.33 B	4	2.53	3.06 B			28.8	6 S	14.8	14
15	7.15 B	4	2.47	3.05 B			25.2	6 S	13.1	15
16	6.95 B	4	2.40	3.05 B			22.7	6	11.6	16
17	6.78 B	4	2.34	3.05 B			21.2	6	11.0	17
18	6.70 B	3 S	1.74	3.05 B			20.4	6 S	10.5	18
19	6.53 B	3	1.88	3.04 B			20.1	7 S	12.2	19
20	6.38 B	3	1.85	3.04 B			19.3	7	11.7	20
21	6.18 B	3	1.80	6.18 B			17.8	7 S	10.6	21
22	6.02 B	3 S	1.68	6.02 B			16.5	7	9.88	22
23	5.88 B	6 S	2.84	15.4 B			15.8	6	8.18	23
24	5.75 B	3	1.49	24.3 B			13.8	6	7.15	24
25	5.63 B	3	1.46	33.8 B			12.3	6	6.38	25
26	5.50 B	3	1.43	23.8 B	40 S	81.2	10.8	5 S	4.67	26
27	5.38 B	3	1.40	27.3 B	45 S	105	9.56	5	4.14	27
28	5.27 B	3	1.37	32.4 B	38 S	101	8.46	5	3.65	28
29	5.14 B	3	1.33	41.2	25 S	89.7	11.3	7	6.83	29
30	5.04 B	3	1.31	47.1	25 S	108	17.8	28	38.3	30
31	4.95 B	3	1.28	81.0	23 S	121				31
TOTAL	222.12		77.88	371.44		814.9	1 248.84		1 825.89	TOTAL

DAY	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAY
1	17.3	8	13.5	7.02	13	7.88	12.4			1
2	13.7	6	7.10	7.23	6	3.75	10.1			2
3	11.2	6 S	5.81	6.77	4	1.88	8.55			3
4	9.63	6	5.10	6.84	4	1.71	7.07			4
5	9.28	5	4.01	6.59	4	1.58	7.55			5
6	11.8	5 S	5.01	6.32	5	2.73	7.28			6
7	13.7	19	22.5	11.4	19 S	18.7	8.84			7
8	13.0	5	5.62	9.05	10	7.82	8.22			8
9	11.6	4	4.01	8.56	9	7.43	8.01			9
10	9.88	4	3.48	12.7	15 S	19.8	8.63			10
11	8.47	4 S	2.93	13.1	8	9.78	8.81			11
12	7.48	3	1.94	11.1	4	3.84	8.01			12
13	7.40	3	1.92	11.5	8	8.86	17.4			13
14	8.53	2 S	1.13	11.9	15 S	18.5	17.8			14
15	8.26	2	1.09	16.1	15	35.0	16.3			15
16	8.24	2	1.08	13.8	8	8.40	14.1			16
17	8.98	2	1.04	9.98	7	6.04	11.8			17
18	8.33	2	0.92	8.11	7	4.90	10.8			18
19	4.86	1	0.43	7.40	8	3.86	11.1	53 S	46.8	19
20	4.57	1	0.38	8.43	6	3.33	11.1	3 S	2.88	20
21	4.52	1 S	0.38	5.58	5	2.41	21.8	2 S	1.82	21
22	4.16	2	0.72	5.03	5	2.17	27.5	31 S	58.7	22
23	7.48	13	7.73	4.71	4	1.83	21	31 S	80.8	23
24	9.16	5 S	3.98	5.23	4	1.81	24.6	10 S	21.4	24
25	7.36	3	1.91	5.85	4	1.98	20.6	9 S	16.0	25
26	6.23	3	1.81	6.33	5	2.30	21.7	14 S	28.2	26
27	5.58	3	1.45	4.84	4	1.59	21.6	5	9.33	27
28	5.24	3	1.38	4.79	4	1.68	19.5	8 S	8.42	28
29	5.18	3	1.36	4.73	3	1.23	17.6	8 S	7.80	29
30	4.80	3	1.27	4.42	3	1.15	15.1	4	5.22	30
31	5.08	3	1.31				15.6	3 S	4.04	31
TOTAL	349.27		112.03	338.15		178.00	410.08		280.81	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1987

DAY	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	JAN DAILY DISCHARGE (m^3/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m^3/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	DAY
1	55.2	42 S	200							1
2	74.8	27 S	174							2
3	81.1	11 S	58.1							3
4	62.1	7 S	35.6							4
5	30.9	6	16.0							5
6	24.6	5 S	10.8							6
7	20.8	3 S	5.39							7
8	17.8	4 S	6.19							8
9	15.6	3 S	4.04							9
10	14.7	3 S	3.81							10
11	14.6	5 S	6.31							11
12	20.2	28 S	48.8							12
13	18.3 B	5 S	9.49							13
14	16.2 B	6 S	8.40							14
15	14.7 B	4 S	5.08							15
16	13.0 B	4	4.49							16
17	12.0 B	5 S	5.18							17
18	11.1 B	6	5.80							18
19	10.2 B	5 S	4.41							19
20	9.73 B	5	4.20							20
21	9.47 B	4 S	3.27							21
22	9.18 B	4	3.17							22
23	8.98 B	3	2.33							23
24	8.66 B	3 S	2.24							24
25	8.51 B	3	2.21							25
26	8.30 B	3	2.15							26
27	8.22 B	3 S	2.13							27
28	8.18 B	3	2.12							28
29	8.01 B	3 S	2.08							29
30	7.90 B	14	8.88							30
31	7.85 B	4 S	2.71							31
TOTAL	590.90		536.85							TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 01	11:45	0.5	8.35	B	15.0	D49	4	118														
JAN 04	14:10	0.5	8.05	B	15.0	D49	9															
JAN 08	16:53	0.5	8.75	B	15.0	D49	4															
JAN 11	16:35	0.5	7.92	B	15.0	D49	4															
JAN 16	14:35	0.5	8.70	B	15.0	D49	3															
JAN 22	17:00	0.5	8.02	B	15.0	D49	3															
JAN 23	15:40	0.5	8.86	B	15.0	D49	7															
MAR 26	10:10	1.0	23.5	B	15.0	D49	21															
MAR 27	10:50	1.0	27.3	B	15.0	D49	35															
MAR 27	16:50	1.5	32.4	B	15.0	D49	41															
MAR 28	11:20	1.0	36.6		15.0	D49	32															
MAR 29	14:55	1.5	38.9		15.0	D49	28															
MAR 30	10:00	0.5	46.3		15.0	D49	16															
MAR 30	17:05	2.0	46.8		15.0	D49	25															
MAR 31	16:55	1.5	61.7		15.0	D49	22															
APR 01	10:05	1.5	91.3		15.0	D49	33															
APR 01	17:25	2.0	113		15.0	D49	53															
APR 02	09:55	2.0	128		15.0	D49	44															
APR 02	16:45	2.0	128		15.0	D49	35															
APR 03	10:10	1.5	156		15.0	D49	15	59														
APR 03	17:05	4.0	97.2		15.0	D49	13															
APR 04	09:40	3.0	87.6		15.0	D49	11															
APR 05	09:30	4.0	84.3		15.0	D49	9															
APR 06	11:20	4.0	83.1		15.0	D49	7															
APR 06	16:50	4.0	83.4		15.0	D49	7															
APR 07	10:20	4.0	84.5		15.0	D49	6															
APR 07	16:45	4.5	83.4		15.0	D49	7															
APR 08	10:12	4.0	80.8		15.0	D49	5															
APR 08	17:00	4.0	76.5		15.0	D49	5															
APR 09	10:03	3.0	66.5		15.0	D49	4															
APR 09	17:10	3.0	60.5		15.0	D49	5	66														
APR 10	10:05	3.0	61.8		15.0	D49	5															
APR 10	16:55	5.0	44.1		15.0	D49	5															
APR 12	13:42	7.0	33.7		15.0	D49	8															
APR 13	16:53	7.0	32.0		15.0	D49	6															
APR 14	16:50	8.5	28.3		15.0	D49	8															
APR 15	16:47	7.0	26.0		15.0	D49	8															
APR 16	08:06	8.0	30.5		15.0	D49	8															
APR 19	06:35	10.5	30.2		15.0	D49	7															
APR 21	10:00	13.0	17.7		15.0	D49	7															
APR 28	15:52	11.0	10.8		15.0	D49	5															
MAY 03	09:20	9.0	11.4		15.0	D49	8															
MAY 08	17:00	10.0	11.9		15.0	D49	5															
MAY 11	17:00	15.0	8.28		15.0	D49	4															
MAY 14	16:44	15.0	8.43		15.0	D49	3															
MAY 21	16:55	15.5	4.37		15.0	D49	1															
MAY 24	19:00	14.0	8.70		15.0	D49	4															
JUN 07	09:30	13.0	11.8		15.0	D49	17															
JUN 10	16:40	14.0	13.4		15.0	D49	13															
JUN 14	19:42	15.0	13.0		15.0	D49	37															
NOV 18	16:30	5.5	10.5		15.0	D49	3	75														
NOV 20	16:50	5.0	10.3		15.0	D49	2															
NOV 21	11:25	5.0	21.5		15.0	D49	19															
NOV 23	13:05	2.0	24.8		15.0	D49	10															
NOV 24	13:10	2.0	18.8		15.0	D49	8															
NOV 25	13:45	3.5	21.9		15.0	D49	7															
NOV 27	13:22	0.5	19.4		15.0	D49	6															
NOV 28	14:05	1.0	17.8		15.0	D49	5															
NOV 30	12:05	0.5	13.8		15.0	D49	3															
DEC 01	13:10	0.0	68.0		15.0	D49	71	59														
DEC 02	16:42	0.0	77.0		15.0	D49	18															
DEC 03	11:35	4.0	63.1		15.0	D49	10															
DEC 04	16:45	3.0	38.6		15.0	D49	6															
DEC 06	14:42	0.5	24.1		15.0	D49	5															
DEC 07	13:17	2.0	20.8		15.0	D49	3															
DEC 08	16:53	1.5	17.8		15.0	D49	4															
DEC 09	11:07	2.0	15.7		15.0	D49	3															
DEC 10	10:50	2.0	14.7		15.0	D49	4															
DEC 11	10:38	2.5	14.1		15.0	D49	2															
DEC 12	10:00	1.0	21.1		15.0	D49	6	55														
DEC 13	16:50	1.0	20.5		15.0	D49	5															
DEC 14	16:45	0.5	17.7		15.0	D49	6															
DEC 16	16:40	0.5	16.4		15.0	D49	4															
DEC 17	16:30	0.5	13.7		15.0	D49	5															
DEC 18	16:35	0.5	11.2		15.0	D49	5															
DEC 21	16:23	0.5	10.5		15.0	D49	4															
DEC 24	13:40	0.5	12.4		15.0	D49	3															
DEC 27	16:20	0.5	9.84		15.0	D49	3															
DEC 28	13:34	0.0	12.5		15.0	D49	4															
DEC 31	13:15	0.0	20.0		15.0	D49	2															

NOTE : SINGLE VERTICAL LOCATED AT 15.0 METRES FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY - JAN-DEC MEAN LOAD (TONNES)	SUMMARY - JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY - JAN-DEC STANDARD ERROR OF MEAN %
1967	----------C	MANUAL	33	DEC 17	4	DEC 25	231	DEC 06	1 470	---	---	---
1968	CCCCCCCCCCCC	MANUAL	87	NOV 28	2	JAN 01	265	NOV 30	4 590	12.5	12.5	---
1969	CCCCCCCCCCCC	MANUAL	38	MAY 21	1	JUN 15 *	142	DEC 23	3 240	8.87	10.7	17.0
1970	CCCCCCCCCCCC	MANUAL	88	MAR 27	1	JAN 11	242	FEB 06	2 930	8.02	9.80	14.0
1971	CCCCCCCCCCCC	MANUAL	45	MAY 17	1	JUL 25	241	AUG 17	4 090	11.2	10.1	10.2
1972	CCCCCCCCCCCC	MANUAL	51	MAY 05	1	NOV 28	606	MAY 05	5 370	14.7	11.1	10.8
1973	CCCCCCCCCCCC	MANUAL	200	DEC 07	1	APR 08	487	DEC 07	6 020	16.5	12.0	11.2
1974	CCCCCCCCCCCC	MANUAL	385	SEP 04 *	1	APR 27	259	SEP [illegible]	4 880	13.3	12.2	9.4
1975	CCCCCCCCCCCC	MANUAL	112	NOV 14	2	SEP 14	205	MAR 21	4 110	11.3	12.0	8.4
1976	CCCCCCCCCCCC	MANUAL	75	DEC 08	1	FEB 01	601	DEC 27	7 570	20.7	13.0	10.0
1977	CCCCCCCCCCCC	MANUAL	43	SEP 15	2	AUG 07	230	OCT 02	5 800	15.2	13.3	9.1
1978	CCCCCCCCCCCC	MANUAL	87	JAN 15	1	JAN 06	572	JAN 15 *	3 930	10.8	13.1	8.5
1979	CCCCCCCCCCCC	MANUAL	77	AUG 13	1	JAN 15	580	JAN 30	8 530 *	23.4	14.0	9.5
1980	CCCCCCCCCCCC	MANUAL	80	NOV 11	1	AUG 17	148	APR 05	3 470	9.48	13.8	9.4
1981	CCCCCCCCCCCC	MANUAL	74	MAR 31	1	DEC 29	284	NOV 21	5 200	14.2	13.7	8.6
1982	CCCCCCCCCCCC	MANUAL	89	APR 28	1	AUG 08	208	APR 25	3 330	9.12	13.4	7.6
1983	CCCCCCCCCCCC	MANUAL	86	MAY 03	1	AUG 28	181	MAR 14	3 850	10.8	13.2	8.2
1984	CCCCCCCCCCCC	MANUAL	75	DEC 11	2	NOV 18	155	MAR 16	4 210	11.5	13.1	7.8
1985	CCCCCCCCCCCC	MANUAL	113	MAR 13	1	APR 21	405	MAR 13	4 150	11.4	13.0	7.4
1986	CCCCCCCP-PCC	MANUAL	113	JUL 31	1	JAN 8	411	MAR 30	4 010	---	---	---
1987	C-PCCC----PC	MANUAL	71	DEC 1	1	MAY 21	501	APR 02	3 510	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 45 35 10 N LONG 64 27 05 W
DRAINAGE AREA: 63.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 47.8 TONNES FOR THE PERIOD AUG 25 TO NOV 28

REMARKS:

	AUG			SEP			OCT			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.086									
2	0.088			0.048	2	0.01	0.334	2	0.08	1
3	0.073			0.085	1	0.01	1.64	7 S	0.99	2
4	0.084			0.088	1	0.01	1.58	6 S	0.87	3
5	0.080			0.075	1	0.01	6.15	15	13.4	4
				0.081	1	0.01	5.70	6	2.95	5
6	0.077									
7	0.071			0.052	1	0	2.85	4	1.02	6
8	0.053			0.048	1	0	1.83	3	0.47	7
9	0.047			0.037	1	0	1.35	2	0.23	8
10	0.047			0.123	1	0.01	1.15	2	0.20	9
				0.518	4	0.18	0.893	3	0.23	10
11	0.048									
12	0.047			0.383	1 S	0.03	0.728	3	0.18	11
13	0.047			0.284	3	0.07	0.583	2	0.10	12
14	0.048			0.198	3	0.05	0.531	1	0.05	13
15	0.048			0.251	3	0.07	0.458	2	0.08	14
				0.817	3 S	0.21	0.413	2	0.07	15
16	0.047									
17	0.043			0.500	2	0.09	0.385	2	0.07	16
18	0.048			0.475	3	0.12	0.390	2	0.08	17
19	0.040			0.461	3 S	0.12	0.333	2	0.05	18
20	0.038			0.306	2	0.05	0.328	1	0.03	19
				0.256	2	0.04	0.308	1 S	0.03	20
21	0.037									
22	0.038			0.801	4	0.26	0.308	1	0.03	21
23	0.080			4.71	7 S	2.85	0.845	5	0.41	22
24	0.090			3.00	2 S	0.52	0.922	5 S	0.40	23
25	0.075			1.88	1	0.18	0.771	3	0.20	24
				1.17	1 S	0.10	0.837	4	0.29	25
26	0.082	2	0.01							
27	0.086	2	0.01	0.758	1	0.07	1.88	12	1.97	26
28	0.058	2	0.01	0.599	1	0.05	1.33	5 S	0.57	27
29	0.051	1	0	0.483	1	0.04	0.852	2	0.18	28
30	0.049	2	0.01	0.430	1 S	0.04	3.71	2 S	0.64	29
31	0.050	1	0	0.341	2	0.05	3.75	5 S	2.59	30
							2.22	4	0.77	31
TOTAL	1.758		0.04	19.200		5.26	47.582		28.95	TOTAL

	NOV									
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.57	4	0.54							
2	1.16	4	0.41							1
3	0.922	3 S	0.24							2
4	0.886	3	0.23							3
5	0.933	3	0.24							4
										5
6	0.913	3 S	0.18							
7	0.801	2	0.14							6
8	0.886	3	0.18							7
9	0.840	2	0.11							8
10	0.852	5 S	0.28							9
										10
11	0.802	6	0.31							
12	1.20	5	0.52							11
13	2.21	6 S	1.15							12
14	1.61	5	0.78							13
15	1.97	4	0.68							14
										15
16	1.84	4	0.57							
17	1.30	4 S	0.48							16
18	1.73	4	0.60							17
19	2.38	4	0.82							18
20	2.24	2 S	0.38							19
										20
21	5.41	2 S	0.83							
22	4.83	3 S	0.80							21
23	2.88	3 S	0.48							22
24	3.32	3	0.60							23
25	3.01	4	1.04							24
										25
26	2.78	3	0.48							
27	2.11	1	0.18							26
28	1.77	1	0.15							27
29	1.60	1	0.14							28
30	1.32									29
31										30
										31
TOTAL	54.085		13.61							TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
FEB 25	13:00	0.5	0.231 B	10LB	DH48	1	28														
APR 16	09:30	3.5	2.68	10LB	DH48	1															
APR 16	09:35		2.68	10LB	PWS	2															
APR 16	16:00		2.85	10LB	PWS	6															
APR 17	09:00		3.07	10LS	PWS	3															
APR 17	16:00		2.94	10LB	PWS	2															
MAY 11	10:00		0.820	10LB	PWS	3															
MAY 11	10:45	8.5	0.810	10LB	DH48	1															
MAY 11	16:00		0.801	10LB	PWS	2															
MAY 13	16:00		0.900	10LB	PWS	4															
MAY 14	16:00		0.718	10LB	PWS	5															
JUN 10	13:15	14.0	2.62	10LB	DH48	1															
JUN 11	16:00		1.89	10LB	PWS	10															
JUL 22	09:30	20.0	0.081	10LB	DH48	2															
JUL 22	19:30		0.081	10LB	PWS	3															
JUL 23	04:00		0.081	10LB	PWS	4															
AUG 26	09:15		0.070	10LB	PWS	1															
AUG 26	10:00		0.070	10LB	PWS	1															
AUG 26	18:00		0.070	10LB	PWS	1															
SEP 11	18:00		0.358	10LB	PWS	1															
SEP 15	16:00		0.860	10LB	PWS	2															
SEP 16	16:00		0.419	10LB	PWS	1															
SEP 22	04:00		5.12	10LB	PWS	17															
SEP 22	14:00		4.84	10LB	PWS	2															
SEP 22	15:00		4.87	10LB	PWS	7															
SEP 22	16:00		4.84	10LB	PWS	11															
SEP 22	17:00		4.85	10LB	PWS	6															
SEP 23	04:00		3.46	10LB	PWS	3															
SEP 23	10:00	13.0	3.07	10LB	DH48	3															
SEP 23	13:00		2.94	10LB	PWS	2															
SEP 23	14:00		2.80	10LB	PWS	1															
SEP 23	15:00		2.71	10LB	PWS	1															
SEP 23	16:00		2.87	10LB	PWS	2															
SEP 23	17:00		2.58	10LB	PWS	1															
SEP 25	18:00		1.01	10LB	PWS	1															
SEP 28	18:00		0.401	10LB	PWS	1															
OCT 02	16:00		2.01	10LB	PWS	2															
OCT 03	23:50		4.23	10LB	PWS	19															
OCT 20	12:10	10.0	0.318	10LB	DH48	1															
OCT 20	18:00		0.313	10LB	PWS	1															
OCT 23	18:00		0.820	10LB	PWS	4															
OCT 27	18:00		1.19	10LB	PWS	2															
OCT 29	16:00		5.19	10LB	PWS	1															
OCT 30	04:00		4.55	10LB	PWS	8															
OCT 30	16:00		3.30	10LB	PWS	9															
NOV 03	16:00		0.800	10LB	PWS	4															
NOV 06	16:00		0.880	10LB	PWS	2															
NOV 10	16:00		0.880	10LB	PWS	7															
NOV 13	16:00		2.15	10LB	PWS	7															
NOV 17	16:00		1.19	10LB	PWS	8															
NOV 20	16:00		1.57	10LB	PWS	1															
NOV 21	04:00		5.27	10LB	PWS	8															
NOV 21	16:00		5.85	10LB	PWS	1															
NOV 22	04:00		5.18	10LB	PWS	1															
NOV 22	16:00		4.23	10LB	PWS	1															
NOV 23	04:00		3.26	10LB	PWS	2															
NOV 23	16:00		2.62	10LB	PWS	3															
NOV 30	12:15	1.0	1.18	10LB	DH48	1															

NOTE : SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1971	CCCCCCCCCCCC	AUTO	16	OCT 11	0	JUN 15 *	15.2	APR 15	251	0.89	0.88	---
1972	CCCCCCCCCCCC	AUTO	71	MAY 04 *	0	JUN 27	252	MAY 04 *	938 *	2.56	1.83	57.4
1973	----PCCCCCCC	AUTO	24	JUN 17	0	OCT 28	8.98	JUN 17	143	---	---	---
1974	------CCCCCC	MANUAL	14	DEC 10	1	OCT 08	36.2	NOV 28	189	---	---	---
1975	CCCCCCCCCCCC	MANUAL	9	APR 21	1	JAN 08	188	NOV 14	530	1.45	1.57	34.8
1976	CCCCCCCCCCCC	MANUAL	27	AUG 30	1	MAR 01	83.7	JAN 29	885	1.87	1.84	23.9
1977	CCCCCCCCCCCC	MANUAL	18	JUL 13	2	FEB 14	85.1	OCT 02	846	1.50	1.81	18.9
1978	CCCCCCCCCCCC	MANUAL	8	MAR 07	1	APR 17	77.8	APR 21	284	0.73	1.47	18.7
1979	CCCCCCCCCCCC	MANUAL	30	JAN 03	1	FEB 08	70.8	MAR 18	551	1.51	1.47	18.7
1980	CCCCCCCCCCCC	MANUAL	5	APR 21	1	JAN 31	80.2	DEC 04	272	0.74	1.38	16.7
1981	CCCCCCCCCCCC	MANUAL	8	OCT 19	1	JAN 05	108	DEC 03	481	1.32	1.37	14.9
1982	CCCCCCCCCCCC	MANUAL	7	MAY 19	1	JAN 12	28.9	APR 29	200	0.55	1.28	15.5
1983	CCCCCCCCCCCC	DUAL	7	MAY 03	1	APR 21	19.7	DEC 14	207	0.57	1.23	15.8
1984	CCCCCCCCCCCC	DUAL	33	AUG 16	1	MAR 5	13.4	JUL 08	174	0.48	1.18	16.1
1985	CCCCCCCCCCCC	DUAL	7	AUG 6	1	JAN 7	8.47	APR 07	78.8	0.22	1.08	17.1
1986	CCCCCCCCCCCC	DUAL	21	JUN 19	1	APR 15	22.4	MAR 21	287	0.79	1.07	16.2
1987	-P-PPPPPCCP-	DUAL	18	OCT 3	1	FEB 25	13.4	OCT 04	47.8	---	---	---

AUTO - AUTOMATIC SAMPLING DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 46 12 07 N LONG 62 39 23 W
DRAINAGE AREA: 33.1 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 222 TONNES FOR THE PERIOD JAN 01 TO DEC 01

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	0.418	1	0.04	0.358	2	0.06	0.310	3	0.08	1
2	0.428	1 S	0.04	0.426	4	0.15	0.318	3	0.08	2
3	0.495	1	0.04	0.406	5 S	0.17	0.318	3 S	0.08	3
4	0.483	1	0.04	0.380	5	0.16	0.307	1	0.02	4
5	0.458	1	0.04	0.373	5	0.16	0.324	1	0.03	5
6	0.488	1 S	0.04	0.388	4 S	0.13	0.317	1 S	0.03	6
7	0.461	1	0.04	0.388	3	0.10	0.317	1	0.03	7
8	0.508	1	0.04	0.386	2	0.08	0.328	1	0.03	8
9	0.481	1 S	0.04	0.368	3	0.09	0.319	2	0.05	9
10	0.458	2	0.08	0.389	5 S	0.18	0.337	2 S	0.09	10
11	0.488	1	0.04	0.378	5	0.16	0.338	3	0.09	11
12	0.523	2	0.09	0.383	3	0.09	0.330	3	0.09	12
13	0.481	2 S	0.08	0.380	5 S	0.16	0.338	4 S	0.12	13
14	0.485	2	0.08	0.368	3	0.09	0.345	3	0.09	14
15	0.470	1	0.04	0.343	3	0.09	0.358	3	0.09	15
16	0.458	1 S	0.04	0.344	3	0.09	0.332	3	0.09	16
17	0.444 A	1	0.04	0.344	3 S	0.09	0.330	2 S	0.08	17
18	0.448	2	0.08	0.338	3	0.09	0.347	2	0.08	18
19	0.482	2	0.08	0.328	3	0.09	0.353	2	0.08	19
20	0.463	11 S	0.42	0.328	4 S	0.11	0.352	5 S	0.18	20
21	0.440	2	0.08	0.323	4	0.11	0.336	3	0.09	21
22	0.433	2	0.07	0.314	4	0.11	0.386	3	0.09	22
23	0.484	8 S	0.35	0.319	3	0.08	0.343	2	0.06	23
24	0.453	4	0.16	0.310	3 S	0.08	0.332	11 S	0.32	24
25	0.427	4	0.15	0.314	1	0.03	0.337	4	0.12	25
26	0.411	3	0.11	0.311	2	0.06	0.380	5	0.16	26
27	0.412	3 S	0.11	0.308	2 S	0.06	0.884	28 S	1.48	27
28	0.387	2	0.07	0.308	2	0.06	0.600	10	0.89	28
29	0.390	2	0.07				0.600	11	0.78	29
30	0.380	1 S	0.03				0.649	13	0.85	30
31	0.378	1	0.03				1.04	20 S	1.80	31
TOTAL	13.824		2.88	9.704		2.45	12.889		7.91	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.63	28	3.44	1.48	5 S	0.64	0.872	4	0.33	1
2	2.36	54	11.0	1.33	4	0.48	0.843	4 S	0.32	2
3	2.84	69 S	16.7	1.27	4	0.44	0.837	4	0.32	3
4	2.63	51	10.7	1.25	3	0.32	0.837	4	0.32	4
5	2.33	47	9.48	1.18	3 S	0.31	0.822	4	0.31	5
6	2.73	85	15.6	1.17	3	0.30	0.848	4	0.32	6
7	3.10	73 S	19.6	1.29	15	1.67	0.880	5	0.38	7
8	2.47	33	4.88	1.18	5 S	0.51	0.842	4	0.32	8
9	2.14	14	2.58	1.12	2	0.19	0.880	25 S	3.05	9
10	2.20	14 S	2.66	1.09	2	0.28	1.13	10 S	0.88	10
11	2.18	15	2.78	1.05	3	0.37	0.844	14 S	1.02	11
12	2.11	14	2.55	1.03	4 S	0.38	0.888	16 S	0.88	12
13	1.98	11	1.88	1.10	6	0.78	0.833	10	0.72	13
14	1.88	12 S	1.88	0.883	5	0.42	0.788	7	0.63	14
15	1.89	10	1.63	0.847	5 S	0.49	0.703	6 S	0.36	15
16	1.87	11	1.78	0.849	4	0.33	0.696	4	0.23	16
17	1.87	16 S	2.89	0.808	4	0.31	0.808	4	0.21	17
18	2.08	20	3.89	0.874	4	0.30	0.688	4	0.20	18
19	2.24	28	4.84	0.883	4 S	0.28	0.688	4	0.20	19
20	1.94	14	2.36	0.828	4	0.29	0.693	4	0.19	20
21	1.88	16 S	3.28	0.807	4	0.36	0.650	4	0.19	21
22	1.87	18	2.42	0.803	5 S	0.35	0.631	8 S	0.41	22
23	1.72	12	1.78	0.787	5	0.34	0.658	11	0.53	23
24	1.68	12 S	1.73	0.788	4	0.27	0.672	10	0.48	24
25	1.68	8	1.34	0.763	5	0.33	0.628	6 S	0.43	25
26	1.63	8	1.08	0.728	5 S	0.31	0.628	5	0.33	26
27	1.48	8	0.78	0.732	4	0.26	0.605	4	0.17	27
28	1.41	4 S	0.49	0.737	5	0.32	0.658	10	0.48	28
29	1.80	16	2.49	0.708	7 S	0.43	0.620	6 S	0.36	29
30	1.88	14	2.00	0.684	5	0.30	0.495	5	0.21	30
31				0.703	4	0.24				31
TOTAL	60.28		137.89	30.108		13.38	18.808		13.88	TOTAL

A - MANUAL GAUGE

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1987

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.481	4	0.17	0.378			0.330	3	0.08	1
2	0.455	5	0.20	0.380			0.373	10 S	0.32	2
3	0.432	5	0.19	0.381			0.328	5	0.14	3
4	0.480	4	0.18	0.398			0.318	5	0.14	4
5	0.455	5	0.20	0.373			0.318	5	0.18	5
6	0.438			0.358			0.308	5	0.13	6
7	0.428			0.349			0.304	5	0.13	7
8	0.420			0.350			0.308	5 S	0.18	8
9	0.420			0.372			0.551	35	1.71	9
10	0.404			0.380			0.910	5 S	0.83	10
11	0.403			0.375			0.441	2	0.08	11
12	0.387			0.381			0.357	2	0.08	12
13	0.389			0.381			0.345	3	0.09	13
14	0.409			0.355			0.372	5	0.18	14
15	0.405			0.348			0.441	4	0.15	15
16	0.384			0.358			0.358	2	0.08	16
17	0.381			0.383			0.388	2	0.08	17
18	0.378			0.386			0.388	2 S	0.08	18
19	0.374			0.347			0.381	2	0.08	19
20	0.388			0.336			0.383	2	0.08	20
21	0.370			0.380			0.347	2	0.08	21
22	0.388			0.344			0.388	5	0.19	22
23	0.382			0.388			0.389	4	0.13	23
24	0.375			0.352			0.347	4	0.12	24
25	0.383			0.336			0.340	3	0.09	25
26	0.384			0.332			0.330	4	0.11	26
27	0.387			0.317			0.347	4	0.12	27
28	0.388			0.323			0.342	3 S	0.09	28
29	0.378			0.318	1	0.03	0.338	3	0.09	29
30	0.388			0.322	1	0.03	0.328	2	0.08	30
31	0.371			0.318	1	0.03				31
TOTAL	12.483		0.92	10.830		0.09	11.248		5.59	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.330	8	0.17	0.388	7	0.24	0.800 E	8 S	0.41	1
2	0.393	8	0.31	0.378	7	0.23	1.01 E			2
3	0.388	8 S	0.18	0.374	7	0.23	0.770 E			3
4	0.343	5	0.15	0.402	8 S	0.31	0.680 E			4
5	0.338	5	0.14	0.408	8	0.21	0.840 E			5
6	0.330	4	0.11	0.388	7	0.24	0.770 E			6
7	0.322	4	0.11	0.375 A	7	0.23	0.680 E			7
8	0.334	4	0.12	0.348 A	7	0.21	0.680 E			8
9	0.335	4	0.12	0.380	88 S	1.80	0.815 E			9
10	0.320	3	0.08	0.388	11	0.34	0.681 A			10
11	0.320	3	0.08	0.348	8	0.27	0.893			11
12	0.311	5	0.13	0.849 A	123 S	9.02	0.878			12
13	0.308	6	0.16	2.00 E	19	3.38	0.851			13
14	0.304	6	0.16	1.05 A	18	2.14	0.809			14
15	0.304	7	0.18	1.32 E	13	1.37	0.898			15
16	0.289	8 S	0.18	0.840 E	17 S	1.23	0.810			16
17	0.303	8	0.16	0.750 E	8	0.58	0.830			17
18	0.304	8	0.16	0.680 E	9	0.64	0.893			18
19	0.302	5	0.13	0.640 E	8	0.50	0.595			19
20	0.300	5	0.13	0.590 E	10 S	0.51	0.850			20
21	0.288	5	0.13	0.700 E	8	0.38	0.674			21
22	0.388	12	0.40	0.800 E	8	0.55	0.586			22
23	0.384	8	0.27	0.930 E	8	0.48	0.648			23
24	0.334	8	0.17	0.850 E	5	0.28	0.533			24
25	0.341	8	0.18	0.595 E	8 S	0.48	0.548			25
26	0.388	8	0.21	0.880 E	8	0.39	0.583			26
27	0.341	3	0.08	0.535 E	82 S	3.14	0.538			27
28	0.320	3	0.09	0.510 E	8	0.35	0.523			28
29	0.707	48 S	2.61	0.485 E	8	0.31	0.518			29
30	0.838	20	1.10	0.445 E	5 S	0.19	0.532			30
31	0.418	8	0.32				0.580			31
TOTAL	11.037		8.72	19.585		39.89	18.473		0.41	TOTAL

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 02	10:20	1.0	0.452	10LB	DH48	1															
JAN 06	14:35	1.0	0.436	10LB	DH48	1															
JAN 09	12:00	2.0	0.486	10LB	DH48	1															
JAN 13	10:50	2.0	0.452	10LB	DH48	2															
JAN 16	10:00	2.0	0.444	10LB	DH48	1															
JAN 20	14:35	2.0	0.428	10LB	DH48	83															
JAN 23	15:20	2.0	0.428	10LB	DH48	33	161														
JAN 27	10:20	1.0	0.395	10LB	DH48	3															
JAN 30	13:50	1.0	0.376	10LB	DH48	1															
FEB 03	14:00	1.0	0.381	10LB	DH48	5															
FEB 06	14:30	1.0	0.333	10LB	DH48	4															
FEB 10	15:10	1.0	0.338	10LB	DH48	8															
FEB 13	14:20	1.0	0.333	10LB	DH48	10															
FEB 17	09:30	1.0	0.318	10LB	DH48	3															
FEB 20	14:10	1.0	0.307	10LB	DH48	4															
FEB 24	09:30	2.0	0.312	10LB	DH48	4															
FEB 27	13:50	2.0	0.304	10LB	DH48	2	139														
MAR 03	10:30	2.0	0.330	10LB	DH48	3															
MAR 06	11:20	3.0	0.351	10LB	DH48	2															
MAR 10	13:50	3.0	0.336	10LB	DH48	2															
MAR 13	15:10	3.0	0.321	10LB	DH48	3															
MAR 17	10:25	3.0	0.338	10LB	DH48	2															
MAR 20	13:20	2.0	0.330	10LB	DH48	30															
MAR 24	13:50	3.0	0.345	10LB	DH48	127															
MAR 27	10:30	3.0	0.484	10LB	DH48	56															
MAR 31	10:00	4.0	0.848	10LB	DH48	22															
APR 03	09:30	4.0	2.30	10LB	DH48	80	80														
APR 07	09:00	4.0	3.08	10LB	DH48	61															
APR 10	13:10	4.0	2.15	10LB	DH48	14															
APR 14	10:30	4.0	1.89	10LB	DH48	10															
APR 17	12:40	5.0	1.77	10LB	DH48	78															
APR 21	08:50	5.0	1.70	10LB	DH48	12															
APR 24	10:00	5.0	1.72	10LB	DH48	13															
APR 28	09:00	5.0	1.27	10LB	DH48	4															
MAY 01	08:30	5.0	1.36	10LB	DH48	5															
MAY 05	08:50	9.0	1.22	10LB	DH48	2															
MAY 08	13:00	9.0	1.18	10LB	DH48	27															
MAY 12	08:45	10.0	0.945	10LB	DH48	3															
MAY 15	10:20	10.0	0.817	10LB	DH48	30															
MAY 18	08:50	10.0	0.844	10LB	DH48	4															
MAY 22	15:10	10.0	0.811	10LB	DH48	6															
MAY 26	12:25	11.0	0.777	10LB	DH48	5															
MAY 28	08:30	11.0	0.743	10LB	DH48	8															
JUN 02	12:45	11.0	0.859	10LB	DH48	4															
JUN 09	13:00	14.0	1.33	10LB	DH48	87															
JUN 10	12:00	14.0	0.888	10LB	DH48	12															
JUN 11	10:30	14.0	0.783	10LB	DH48	77	128														
JUN 12	14:30	15.0	0.748	10LB	DH48	128															
JUN 15	16:00	15.0	0.885	10LB	DH48	8															
JUN 22	08:30	15.0	0.881	10LB	DH48	42															
JUN 25	10:30	14.0	0.809	10LB	DH48	8															
JUN 29	18:00	15.0	0.378	10LB	DH48	6															
JUL 06	18:00	17.0	0.432	10LB	DH48	5	131														
JUL 21	14:20	18.0	0.378	10LB	DH48	3															
AUG 18	18:00	18.0	0.412	10LB	DH48	14															
AUG 26	17:00	18.0	0.330	10LB	DH48	1															
SEP 02	16:20	15.0	0.382	10LB	DH48	12	132														
SEP 08	11:30	14.0	1.28	10LB	DH48	7															
SEP 10	17:30	15.0	0.721	10LB	DH48	3															
SEP 18	11:40	13.0	0.808	10LB	DH48	2															
SEP 28	10:20	13.0	0.412	10LB	DH48	3															
OCT 03	11:30	12.0	0.432	10LB	DH48	5															
OCT 15	10:20	12.0	0.412	10LB	DH48	6															
OCT 29	09:30	10.0	0.888	10LB	DH48	88															
OCT 29	15:00	10.0	0.809	10LB	DH48	81															
NOV 04	13:00	8.0	0.378	10LB	DH48	32															
NOV 09	13:35	7.0	0.888	10LB	DH48	1180															
NOV 12	10:25	8.0	0.808	10LB	DH48	326															
NOV 18	11:20	8.0	0.378	10LB	DH48	87															
NOV 20	14:10	5.0	0.721	10LB	DH48	16															
NOV 25	10:50	5.0	0.895 E	10LB	DH48	13															
NOV 27	15:00	4.0	0.835 E	10LB	DH48	1380															
NOV 30	13:10	4.0	0.809	10LB	DH48	3															
DEC 01	14:20	4.0	0.888	10LB	DH48	6															

NOTE : SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1987

DISCHARGE SYMBOL(S): E - ESTIMATED

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1979	------CCCCCC	MANUAL	481	DEC 17	1	DEC 11 *	120	DEC 17	897 *	---	---	---
1980	CCCCCCCCCCCC	MANUAL	333	APR 05	1	FEB 12	190	APR 05 *	584	1.54	1.54	---
1981	CCCCCCCCCCCC	MANUAL	328	FEB 03	1	SEP 18	89.5	FEB 12	885	1.62	1.68	6.3
1982	CCCCCCCCCCCC	MANUAL	88	APR 29	1	MAY 28	22.8	APR 29	303	0.83	1.40	21.0
1983	CCCCCCCCCCCC	MANUAL	93	MAR 21	2	JAN 06	17.7	MAR 21	349	0.95	1.29	18.2
1984	CCCCCCCCCCCC	MANUAL	377	AUG 14	1	MAR 8	108	FEB 05	507	1.39	1.31	14.0
1985	CCCCCCCCCCCC	MANUAL	838	APR 8	1	JAN 3	25.3	APR 17	287	0.73	1.21	14.7
1986	CCCCCCCCCCCC	MANUAL	383	JAN 30	1	MAR 11	65.6	MAR 31	553	1.62	1.28	13.4
1987	CCCCCCPPCCCP	MANUAL	1 380	NOV 27 *	1	JAN 2	19.8	APR 07	232	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 46 20 49 N LONG 63 37 58 W
DRAINAGE AREA: 12.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 108 TONNES FOR THE PERIOD MAR 20 TO DEC 02

REMARKS:

DAY	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	DAY
1	0.078 B									
2	0.078 B			4.20	114 S	41.4	0.284	2 S	0.05	1
3	0.078 B			3.45	82 S	24.4	0.242	2 S	0.04	2
4	0.078 B			2.85	39 S	8.93	0.247	2 S	0.04	3
5	0.078 B			2.34	26 S	5.26	0.256	2 S	0.04	4
				1.30	18 S	2.02	0.236	2 S	0.04	5
6	0.077 B									
7	0.077 B			1.28	18 S	2.01	0.247	2	0.04	6
8	0.077 B			2.06	17 S	3.01	0.258	2 S	0.04	7
9	0.076 B			0.803	8	0.42	0.232	2	0.04	8
10	0.078 B			0.613	7 S	0.37	0.238	1 S	0.03	9
				0.517	8 S	0.27	0.238	2 S	0.04	10
11	0.075 B									
12	0.075 B			0.636	4	0.18	0.230	2 S	0.04	11
13	0.074 B			0.482	3	0.12	0.247	2 S	0.04	12
14	0.074 B			0.415	2 S	0.07	0.258	2	0.04	13
15	0.073 B			0.388	2 S	0.07	0.237	2	0.04	14
				0.381	2 S	0.07	0.238	2 S	0.04	15
16	0.072 B									
17	0.071 B			0.359	2 S	0.06	0.238	1 S	0.02	16
18	0.070			0.348	3 S	0.09	0.232	1 S	0.02	17
19	0.070 B			0.395	3 S	0.10	0.204	2 S	0.04	18
20	0.088 B	4 S	0.02	0.444	3 S	0.12	0.188	2	0.03	19
				0.388	2 S	0.07	0.188	2	0.03	20
21	0.088 B	3	0.03	0.374	2 S	0.06				
22	0.088 B	5	0.03	0.363	2 S	0.06	0.188	2 S	0.03	21
23	0.070 B	4	0.02	0.326	2	0.06	0.183	2	0.03	22
24	0.078 B	4 S	0.03	0.315	4 S	0.11	0.187	2	0.03	23
25	0.085 A	2 S	0.01	0.283	2	0.06	0.178	7 S	0.11	24
							0.184	3	0.04	25
26	0.118	2	0.02	0.264	1 S	0.02				
27	0.228	8 S	0.16	0.256	2 S	0.04	0.187	2 S	0.03	26
28	0.268	5	0.12	0.258	1 S	0.02	0.172	2 S	0.03	27
29	0.231	5	0.14	0.270	2 S	0.05	0.170	2	0.03	28
30	0.524	20 S	0.91	0.288	2 S	0.05	0.165	2	0.03	29
31	1.88 B	45	7.82				0.186	2	0.03	30
							0.142	2 S	0.02	31
TOTAL	5.311		9.10	28.347		89.57	5.590		1.14	TOTAL

DAY	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.140	2 S	0.03	0.130	3	0.03				
2	0.147	2	0.03	0.124	4 S	0.04	0.090	5	0.04	1
3	0.141	3	0.04	0.129	4	0.04	0.087	5	0.04	2
4	0.155	3	0.04	0.132	4	0.05	0.105	4	0.04	3
5	0.154	3	0.04	0.122	4 S	0.04	0.105	4	0.04	4
							0.101	3	0.03	5
6	0.138	2	0.02	0.119	4	0.04				
7	0.137	2 S	0.03	0.134	4	0.05	0.108	3	0.03	6
8	0.137	2	0.02	0.148	4	0.05	0.088	2	0.02	7
9	0.188	18 S	0.27	0.148	4	0.05	0.104	3	0.03	8
10	0.198	8 S	0.15	0.133	3	0.03	0.127	4	0.04	9
							0.124	4 S	0.04	10
11	0.185	2 S	0.03	0.140	3	0.04				
12	0.188	2	0.03	0.137	3 S	0.04	0.086	3	0.02	11
13	0.173	4 S	0.06	0.122	2	0.02	0.111	3	0.03	12
14	0.183	4	0.06	0.134	3	0.03	0.113	3	0.03	13
15	0.189	4 S	0.07	0.124	4	0.04	0.108	7 S	0.07	14
							0.118	5	0.05	15
16	0.178	4	0.06	0.128	4	0.04				
17	0.188	4	0.06	0.130	4 S	0.04	0.117	3	0.03	16
18	0.188	4	0.06	0.138	3	0.04	0.118	2 S	0.02	17
19	0.182	4	0.06	0.137	3	0.04	0.112	2 S	0.02	18
20	0.188	3	0.04	0.127	3	0.03	0.102	2	0.02	19
							0.101	2	0.02	20
21	0.182	3	0.04	0.133	3 S	0.03				
22	0.183	3	0.04	0.118	3	0.03	0.088	3	0.02	21
23	0.147	3	0.04	0.126	3 S	0.03	0.121	3	0.03	22
24	0.148	10 S	0.13	0.111	3	0.03	0.113	3 S	0.03	23
25	0.154	6	0.08	0.114	4	0.04	0.107	3	0.03	24
							0.085	4	0.03	25
26	0.183	4	0.06	0.100	4	0.03				
27	0.183	4 S	0.06	0.088	3	0.02	0.088	3	0.03	26
28	0.182	3	0.04	0.084	3	0.02	0.083	3	0.02	27
29	0.151	3	0.04	0.081	3	0.02	0.087	3	0.03	28
30	0.154	3	0.04	0.082	5 S	0.04	0.101	3	0.03	29
31				0.078	8	0.04	0.088	3	0.03	30
										31
TOTAL	4.724		1.73	3.783		1.11	3.183		0.84	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1987

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.103	3	0.03	0.101	1 S	0.01	0.228	55 S	1.10	1
2	0.115	4 S	0.04	0.102	2	0.02	0.183	18 S	0.28	2
3	0.091	3	0.02	0.101	3	0.03	0.182			3
4	0.136	2	0.02	0.107	4 S	0.04	0.180			4
5	0.117	3	0.03	0.108	5	0.05	0.162			5
6	0.101	4 S	0.03	0.102	5	0.04	0.161			6
7	0.088	3	0.03	0.097	4	0.03	0.153			7
8	0.088	2	0.03	0.100	3	0.03	0.136			8
9	0.108	2 S	0.02	0.102	4	0.04	0.138			9
10	0.104	2	0.02	0.098	5	0.04	0.118			10
11	0.118	2	0.02	0.090	5	0.04	0.138			11
12	0.107	2	0.02	0.116	5 S	0.09	0.135			12
13	0.103	2	0.02	0.166	7	0.10	0.128			13
14	0.101	2	0.02	0.127	8	0.09	0.140			14
15	0.108	3	0.03	0.131	8 S	0.09	0.137			15
16	0.108	3	0.03	0.120	8	0.08	0.130			16
17	0.108	3	0.03	0.123	8	0.09	0.134			17
18	0.123	2	0.02	0.130	17 S	0.18	0.115			18
19	0.108	2	0.02	0.128	12	0.13	0.114			19
20	0.099	3	0.03	0.134	18	0.21	0.126			20
21	0.101	3	0.03	0.185	22 S	0.31	0.129 E			21
22	0.103	2	0.02	0.145	18	0.23	0.137 E			22
23	0.102	1	0.01	0.133	14	0.16	0.137 E			23
24	0.100	2	0.02	0.138	11	0.13	0.128 E			24
25	0.108	2 S	0.02	0.149	9	0.12	0.134 E			25
26	0.089	2	0.02	0.151	8	0.10	0.142 E			26
27	0.095	2	0.02	0.145	7	0.09	0.137 E			27
28	0.100	1	0.01	0.120	8	0.08	0.138 E			28
29	0.120	8 S	0.08	0.115	5	0.05	0.134 E			29
30	0.110	3	0.03	0.119	4	0.04	0.133 E			30
31	0.109	2	0.02				0.137 E			31
TOTAL	3.298		0.78	3.656		2.73	4.353		1.38	TOTAL

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB003

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		SINGLE VERTICAL SAMPLING (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 01	08:45	1.0	0.099		10RB	DH48	1															
JAN 10	10:40	0.0	0.501		10RB	DH48	3															
JAN 18	12:45	0.0	0.114	B	10RB	DH48	2															
JAN 30	13:00	0.0	0.107	B	10RB	DH48	1															
FEB 05	14:35	0.0	0.099	B	10RB	DH48	0	205														
FEB 17	17:30	1.0	0.086		10RB	DH48	5															
FEB 22	14:40	2.5	0.093		10RB	DH48	10															
MAR 20	13:30	4.5	0.086	B	10RB	DH48	5															
MAR 24	15:00	6.0	0.086		10RB	DH48	3															
MAR 25	18:00	3.5	0.085		10RB	DH48	1															
MAR 27	14:10	5.0	0.259		10RB	DH48	10															
MAR 30	08:25	2.5	0.348		10RB	DH48	7															
APR 01	09:00	3.0	10.1	E	10RB	DH48	104															
APR 02	17:00	1.0	5.20	E	10RB	DH48	68	81														
APR 03	13:22	4.0	2.03		10RB	DH48	23															
APR 04	12:50	5.0	1.14		10RB	DH48	10															
APR 05	13:50	5.0	0.850		10RB	DH48	9															
APR 06	13:15	5.5	0.850		10RB	DH48	11															
APR 07	18:30	4.5	1.45		10RB	DH48	11															
APR 09	17:30	3.5	0.600		10RB	DH48	6															
APR 10	16:10	7.0	0.501		10RB	DH48	5															
APR 13	14:30	5.5	0.393		10RB	DH48	2															
APR 14	13:20	6.0	0.349		10RB	DH48	1															
APR 15	13:20	6.3	0.349		10RB	DH48	2	158														
APR 16	18:30	9.0	0.382		10RB	DH48	3															
APR 17	18:10	9.5	0.386		10RB	DH48	3															
APR 18	13:40	9.5	0.349		10RB	DH48	2															
APR 19	13:35	9.2	0.440		10RB	DH48	2															
APR 20	19:00	9.5	0.366		10RB	DH48	3															
APR 21	16:15	12.0	0.382		10RB	DH48	2															
APR 22	17:35	8.0	0.349		10RB	DH48	1															
APR 24	16:45	8.5	0.302		10RB	DH48	5															
APR 26	14:05	7.5	0.248		10RB	DH48	1															
APR 27	17:45	8.0	0.248		10RB	DH48	4	188														
APR 28	14:32	8.2	0.233		10RB	DH48	1															
APR 29	17:40	8.3	0.348		10RB	DH48	2															
APR 30	17:30	8.5	0.273		10RB	DH48	2															
MAY 01	13:30	7.5	0.248		10RB	DH48	1															
MAY 02	15:35	9.0	0.233		10RB	DH48	2															
MAY 03	13:40	7.5	0.208		10RB	DH48	1															
MAY 04	17:30	9.5	0.208		10RB	DH48	1															
MAY 05	17:45	7.5	0.187		10RB	DH48	2															
MAY 07	16:00	9.5	0.220		10RB	DH48	1															
MAY 09	18:00	12.5	0.187		10RB	DH48	1	165														
MAY 10	14:05	11.5	0.187		10RB	DH48	1															
MAY 11	18:15	11.5	0.187		10RB	DH48	2															
MAY 12	10:50	10.5	0.204		10RB	DH48	1															
MAY 15	13:45	9.5	0.188		10RB	DH48	3															
MAY 16	17:35	9.5	0.188		10RB	DH48	1															
MAY 17	12:40	9.5	0.188		10RB	DH48	1															
MAY 18	18:00	11.0	0.188		10RB	DH48	2															
MAY 21	16:50	11.5	0.182		10RB	DH48	3															
MAY 24	10:25	7.5	0.158		10RB	DH48	12															
MAY 26	09:45	14.5	0.158		10RB	DH48	3	175														
MAY 27	17:05	11.0	0.158		10RB	DH48	2															
MAY 31	11:20	8.0	0.130		10RB	DH48	2															
JUN 01	14:55	10.5	0.130		10RB	DH48	3															
JUN 07	06:55	8.5	0.130		10RB	DH48	2															
JUN 09	18:10	10.0	0.233		10RB	DH48	57															
JUN 10	08:05	8.5	0.233		10RB	DH48	15															
JUN 11	08:30	8.0	0.148		10RB	DH48	3															
JUN 13	08:50	8.5	0.188		10RB	DH48	4															
JUN 15	09:10	8.5	0.188		10RB	DH48	4															
JUN 24	18:10	12.0	0.158		10RB	DH48	22	175														
JUN 27	14:05	13.0	0.130		10RB	DH48	4															
JUL 27	08:50	11.0	0.114		10RB	DH48	13															
JUL 31	10:00	10.0	0.130		10RB	DH48	4															
AUG 02	11:05	10.0	0.122		10RB	DH48	3															
AUG 05	08:50		0.122		10RB	DH48	3															
AUG 12	08:55	10.0	0.144		10RB	DH48	3															
AUG 17	08:25	11.0	0.144		10RB	DH48	3															
AUG 21	08:55	10.0	0.111		10RB	DH48	3															
AUG 23	10:25	11.5	0.114		10RB	DH48	3															
AUG 30	10:25	9.0	0.089		10RB	DH48	8	178														
SEP 10	09:00	11.5	0.114		10RB	DH48	5															
SEP 14	15:05	13.5	0.107		10RB	DH48	11															
SEP 18	09:40	9.5	0.093		10RB	DH48	3															
SEP 23	14:05	10.5	0.086		10RB	DH48	4															
OCT 02	10:25	10.0	0.107		10RB	DH48	5															
OCT 08	12:30	12.0	0.130		10RB	DH48	4															
OCT 09	09:10	8.4	0.099		10RB	DH48	2															
OCT 25	09:25	8.0	0.093		10RB	DH48	2															
OCT 29	15:10	11.0	0.114		10RB	DH48	22															
NOV 01	10:30	5.5	0.093		10RB	DH48	1															
NOV 04	10:40	7.0	0.093		10RB	DH48	3															
NOV 12	10:40	4.5	0.099		10RB	DH48	3															
NOV 18	08:35	3.5	0.114		10RB	DH48	5															
NOV 18	14:10	7.0	0.127		10RB	DH48	38															
NOV 21	13:05	5.5	0.130		10RB	DH48	17															
DEC 01	13:35	7.0	0.248		10RB	DH48	88															
DEC 02	10:25	5.5	0.188		10RB	DH48	14															

NOTE : SINGLE VERTICAL LOCATED AT 10RB (ONE QUARTER THE DISTANCE FROM THE RIGHT BANK) FOR 1987

DISCHARGE SYMBOL(S): B - ICE CONDITIONS E - ESTIMATED

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY JAN-DEC MEAN LOAD (TONNES)	SUMMARY JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY JAN-DEC STANDARD ERROR OF MEAN %
1971	------PCCCCC	MANUAL	226	AUG 18	1	JUL 27 *	18.9	AUG 18	38.3	---	---	---
1972	CCCCCCCCCCCC	MANUAL	456	MAY 04	2	SEP 14	224	MAY 04	931 *	2.64	2.64	---
1973	CCCCCCCCCCCC	MANUAL	153	APR 06	2	NOV 20	85.3	MAR 18	270	0.74	1.84	54.9
1974	CCCCCCCCCCCC	DUAL	782	NOV 26	1	MAY 07	44.2	NOV 26	188	0.51	1.25	50.9
1975	CCCCCCCCCCCC	MANUAL	45	MAR 20	2	JAN 03	4.33	APR 20	55.6	0.16	0.99	53.6
1976	CCCCCCCCCCCC	MANUAL	51	MAR 21	2	MAR 15	30.0	MAR 21	84.5	0.23	0.64	52.2
1977	CCCCCCCCCCCC	MANUAL	84	APR 01	1	FEB 09	20.8	MAR 31	136	0.37	0.76	48.2
1978	CCCCCCCCCCCC	MANUAL	54	APR 21	1	FEB 28	42.7	JAN 27	158	0.48	0.72	43.4
1979	CCCCCCCCCCCC	MANUAL	705	APR 10	1	JAN 25	89.7	MAR 15	772	2.11	0.89	36.2
1980	CCCCCCCCCCCC	MANUAL	320	APR 05	1	JAN 21	57.2	APR 05	155	0.42	0.84	34.4
1981	CCCCCCCCCCCC	MANUAL	240	OCT 28	1	MAR 15	71.7	FEB 13	233	0.64	0.82	31.8
1982	CCCCCCCCCCCC	MANUAL	84	APR 28	1	AUG 25	4.85	APR 28	72.8	0.20	0.76	31.7
1983	CCCCCCCCCCCC	MANUAL	131	DEC 14	1	APR 01	22.2	MAR 20	83.5	0.23	0.72	31.1
1984	CCCCCCCCCCCC	MANUAL	3 010	MAR 17	1	JAN 5	29.4	MAR 17	115	0.31	0.88	30.2
1985	CCCCCCCCCCCC	MANUAL	386	MAY 22	1	FEB 19	18.6	APR 07	83.8	0.23	0.85	30.1
1986	CCCCCCCCCCCC	MANUAL	5 690	MAR 30 *	1	MAR 19	280	MAR 30 *	721	1.98	0.74	27.6
1987	PPPCCCPCCCCP	MANUAL	104	APR 1	1	JAN 1	41.6	APR 01	108	---	---	---

DUAL - MANUAL AND AUTOMATIC SAMPLING MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1987

LOCATION: LAT 46 23 35 N LONG 63 35 35 W
DRAINAGE AREA: 48.4 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 488 TONNES FOR THE PERIOD MAR 25 TO NOV 22

REMARKS:

DAY	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	DAY
1	0.284									
2	0.247			12.8 B	84 S	80.2	1.23	2 S	0.21	1
3	0.280 B			15.6 B	131 S	178	1.13	2 S	0.20	2
4	0.267			5.88	89	74.3	1.06	1 S	0.09	3
5	0.280			5.30	47	21.6	1.02	1 S	0.09	4
				3.69	18	5.74	0.983	1 S	0.08	5
6	0.289									
7	0.258			4.04	82 S	21.6	0.977	1	0.08	6
8	0.267			5.67	61	25.8	0.988	3 S	0.26	7
9	0.284			2.67	11	2.73	0.848	2 S	0.15	8
10	0.280			2.19	11	2.08	0.878	1 S	0.08	9
				1.98	14	2.40	0.885	1 S	0.07	10
11	0.258									
12	0.261			2.12	15	2.76	0.822	1 S	0.07	11
13	0.253			2.12	14	2.58	0.818	2 S	0.14	12
14	0.240			1.83	9 S	1.42	0.787	2 S	0.14	13
15	0.247			1.76	7 S	1.06	0.791	1 S	0.07	14
				1.71	8 S	1.18	0.780	1	0.07	15
16	0.280 B									
17	0.280 B			1.71	8 S	1.18	0.798	1 S	0.07	16
18	0.268 B			1.78	7 S	1.06	0.762	1 S	0.08	17
19	0.268 B			2.04	11 S	1.94	0.732	2 S	0.13	18
20	0.249 B			2.23	12 S	2.31	0.710	2 S	0.12	19
				1.83	15 S	2.37	0.688	2	0.12	20
21	0.255 B									
22	0.270 B			1.80	8 S	1.40	0.882	2 S	0.11	21
23	0.280 B			1.78	4 S	0.82	0.849	2 S	0.11	22
24	0.353 B			1.58	4 S	0.65	0.848	1 S	0.08	23
25	0.480 B	8	0.33	1.51	3 S	0.39	0.816	1	0.05	24
				1.44	3 S	0.37	0.588	1	0.05	25
26	0.870 B	7	0.41							
27	0.980 B	14	1.18	1.37	3 S	0.36	0.588	1	0.05	26
28	1.20 B	20	2.07	1.28	2 S	0.32	0.681	1	0.05	27
29	1.80 B	27	4.20	1.31	2	0.31	0.598	1	0.05	28
30	2.45 B	32	8.77	1.28	2 S	0.32	0.692	2 S	0.10	29
31	3.40 B	43	12.8	1.31	2 S	0.33	0.588	2	0.10	30
							0.578	1	0.05	31
TOTAL	17.214		27.53	97.02		417.85	24.343		3.08	TOTAL

DAY	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	OCT DAILY DISCHARGE (m³/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m³/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAY
1	0.578	1	0.05							
2	0.558	2	0.10	0.320			0.348	5	0.15	1
3	0.539	2 S	0.09	0.511			0.361	4	0.12	2
4	0.538	2 S	0.09	0.380			0.342	3 S	0.09	3
5	0.541	2 S	0.09	0.673			0.355	3	0.09	4
				0.468			0.370	3 S	0.10	5
6	0.600	2 S	0.10							
7	0.618	2	0.11	0.398			0.378	2 S	0.08	6
8	0.588	3 S	0.15	0.367			0.345	3	0.09	7
9	0.893	16 S	0.86	0.362			0.344	2	0.08	8
10	0.957	16 S	1.32	0.381			0.358	3	0.09	9
				0.380			0.343	1 S	0.03	10
11	0.880	4	0.24							
12	0.837	6 S	0.33	0.385			0.338	1	0.03	11
13	0.864	16	1.19	0.384			0.711	39 S	2.40	12
14	0.838	6 S	0.33	0.342			0.849	153 S	11.2	13
15	0.788	18	1.19	0.328			0.598	54	2.78	14
				0.334			0.598	10	0.52	15
16	0.888	12 S	0.69							
17	0.894	7 S	0.38	0.332			0.523	6	0.27	16
18	0.676	5	0.25	0.330			0.494	5	0.21	17
19	0.581	5	0.24	0.330			0.898	13 S	0.78	18
20	0.556	4	0.18	0.326			0.739	16 S	0.94	19
				0.333			0.687	15	0.88	20
21	0.564	5	0.24							
22	0.533	4	0.18	0.321			1.35	57	7.61	21
23	0.525			0.350			0.878	8	0.61	22
24	1.30			0.328			0.818			23
25	1.11			0.331			0.788			24
				0.337			0.886			25
26	0.595			0.358						
27	0.548			0.340			0.831			26
28	0.585			0.352	3	0.09	0.780			27
29	0.532			0.455	20	0.79	0.728			28
30	0.505			0.439	18 S	0.67	0.716			29
31				0.388	8	0.29	0.708			30
										31
TOTAL	19.475		8.49	11.552		1.74	18.357		39.20	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1987

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	SINGLE SAMPLING VERTICAL (m)	TYPE OF SAMPLER	INSTANT. CONCENT. (mg/L)	DISSOLVED SOLIDS (mg/L)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	PERCENT SAND	SILT	CLAY
JAN 14	10:00	0.5	0.398	10LB	DH48	1															
JAN 27	12:45	0.5	0.456	10LB	DH48	3															
FEB 23	14:30	1.0	0.272	10LB	DH48	4															
MAR 24	14:30	1.5	0.248	10LB	DH48	14															
APR 01	10:00	4.0	13.3	10LB	DH48	97															
APR 02	10:00	4.0	18.9	10LB	DH48	117															
APR 02	14:00	4.0	15.9	10LB	DH48	176															
APR 06	15:15	5.0	3.80	10LB	DH48	85															
APR 13	15:30	5.0	1.80	10LB	DH48	15															
APR 14	18:20	5.0	1.40	10LB	DH48	9															
APR 15	15:57	5.0	1.38	10LB	DH48	6															
APR 16	16:10	6.0	1.39	10LB	DH48	7															
APR 17	18:15	7.0	1.77	10LB	DH48	6															
APR 18	15:00	8.2	1.79	10LB	DH48	14															
APR 19	18:05	1.2	2.21	10LB	DH48	12															
APR 20	19:15	9.5	1.76	10LB	DH48	23															
APR 21	17:00	1.2	1.77	10LB	DH48	5															
APR 22	09:15	6.5	1.82	10LB	DH48	3															
APR 22	17:30	7.0	1.70	10LB	DH48	5	128														
APR 23	17:20	10.0	1.54	10LB	DH48	3															
APR 24	18:30	6.5	1.50	10LB	DH48	3															
APR 25	17:15	6.5	1.39	10LB	DH48	3															
APR 26	18:10	7.0	1.32	10LB	DH48	2															
APR 27	17:30	7.0	1.25	10LB	DH48	3															
APR 28	18:35	6.0	1.38	10LB	DH48	2															
APR 30	19:00	6.5	1.33	10LB	DH48	2															
MAY 01	15:20	6.0	1.17	10LB	DH48	2															
MAY 02	19:00	8.5	1.08	10LB	DH48	2															
MAY 03	15:30	7.0	1.04	10LB	DH48	1	153														
MAY 04	18:00	8.0	1.00	10LB	DH48	1															
MAY 05	15:30	7.5	0.984	10LB	DH48	1															
MAY 07	14:00	11.0	0.898	10LB	DH48	4															
MAY 08	19:30	10.0	0.898	10LB	DH48	1															
MAY 09	19:00	10.0	0.898	10LB	DH48	1															
MAY 10	12:00	12.5	0.863	10LB	DH48	1															
MAY 11	15:30	11.5	0.817	10LB	DH48	1															
MAY 12	12:09	15.5	0.812	10LB	DH48	1															
MAY 13	17:30	10.5	0.791	10LB	DH48	1															
MAY 14	15:20	10.0	0.755	10LB	DH48	1															
MAY 16	19:30	6.5	0.886	10LB	DH48	1															
MAY 17	12:47	11.5	0.740	10LB	DH48	1															
MAY 18	19:30	6.5	0.886	10LB	DH48	2															
MAY 19	17:40	10.0	0.672	10LB	DH48	2															
MAY 21	15:40	11.5	0.643	10LB	DH48	1															
MAY 22	17:20	11.0	0.648	10LB	DH48	3															
MAY 23	15:12	11.0	0.619	10LB	DH48	1															
MAY 29	15:30	15.0	0.643	10LB	DH48	1															
JUN 03	17:00		0.554	10LB	DH48	2															
JUN 04	15:00	14.0	0.522	10LB	DH48	1															
JUN 05	15:00	14.0	0.536	10LB	DH48	1															
JUN 06	17:00	15.0	0.553	10LB	DH48	1															
JUN 08	11:24	13.0	0.554	10LB	DH48	4															
JUN 08	15:30	13.5	0.554	10LB	DH48	2															
JUN 09	17:00	12.0	0.847	10LB	DH48	28															
JUN 10	15:20	13.5	1.06	10LB	DH48	15															
JUN 12	17:30	13.5	0.800	10LB	DH48	5															
JUN 14	19:30	12.0	0.814	10LB	DH48	7															
JUN 16	15:30	13.5	0.828	10LB	DH48	10															
JUN 17	15:30	12.5	0.665	10LB	DH48	5															
JUL 07	12:30	16.7	0.435	10LB	DH48	9															
JUL 23	09:10	15.5	0.392	10LB	DH48	3	174														
OCT 01	15:10	13.0	0.323	10LB	DH48	3															
OCT 06	12:30	13.0	0.687	10LB	DH48	30															
OCT 13	14:45	8.0	0.338	10LB	DH48	4															
OCT 27	17:05	7.5	0.328	10LB	DH48	3															
OCT 30	17:00	7.0	0.331	10LB	DH48	11															
NOV 03	17:10	5.9	0.351	10LB	DH48	3															
NOV 05	12:45	8.0	0.363	10LB	DH48	3															
NOV 08	11:00		0.371	10LB	DH48	2															
NOV 10	15:50	3.5	0.339	10LB	DH48	1															
NOV 12	17:00	1.5	2.47	10LB	DH48	130															
NOV 13	15:44	1.0	0.701	10LB	DH48	168															
NOV 16	17:00	5.0	0.663	10LB	DH48	15															
NOV 18	18:00	5.0	0.672	10LB	DH48	12															

NOTE : SINGLE VERTICAL LOCATED AT 10LB (ONE QUARTER THE DISTANCE FROM THE LEFT BANK) FOR 1987

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF OPERATION SUMMARY (JFMAMJJASOND)	TYPE OF SAMPLING	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1972	CCCCCCCCCCCC	MANUAL	378	APR 30	1	AUG 28 *	433	MAR 18	3 780	10.3	10.3	---
1973	CCCCCCCCCCCC	MANUAL	339	JAN 01	2	JUN 03	323	FEB 03	1 880	5.18	7.73	33.2
1974	CCCCCCCCCCCC	MANUAL	852	MAR 24	3	MAY 24	279	MAR 24	1 800	4.38	8.61	26.1
1975	CCCCCCCCCCCC	MANUAL	197	APR 20	2	SEP 20	185	APR 20	825	1.71	5.39	33.3
1976	CCCCCCCCCCCC	MANUAL	130	AUG 30	6	MAY 11	121	MAR 21	1 150	3.14	4.84	28.8
1977	CCCCCCCCCCCC	MANUAL	48	OCT 21	3	MAY 18	177	APR 06	1 280	3.48	4.89	26.0
1978	CCCCCCCCCCCC	MANUAL	101	JAN 15	1	MAY 30	136	JAN 27	1 010	2.78	4.42	34.1
1979	CCCCCCCCCCCC	MANUAL	843	APR 10	1	MAY 23	345	MAR 15	4 120 *	11.3	5.38	23.9
1980	CCCCCCCCCCCC	MANUAL	358	MAR 18	2	JUN 03	298	APR 06	1 380	3.78	5.11	22.0
1981	CCCCCCCCCCCC	MANUAL	695	OCT 28	2	APR 21	404	FEB 12	1 910	5.22	5.12	18.7
1982	CCCCCCCCCCCC	MANUAL	287	APR 01	2	NOV 18	144	APR 01	738	2.02	4.84	18.7
1983	CCCCCCCCCCCC	MANUAL	884	APR 05	1	NOV 02	538	MAR 20	1 950	5.34	4.88	17.8
1984	CCCCCCCCCCCC	MANUAL	1 390	MAR 22 *	1	MAY 31	514	MAR 15	2 420	6.61	5.01	18.2
1985	CCCCCCCCCCCC	MANUAL	1 080	MAY 22	1	FEB 25	187	APR 07	389	1.08	4.73	17.0
1986	CCCCCCCCCCCC	MANUAL	918	MAR 31	1	FEB 21	670	MAR 31 *	2 950	8.07	4.98	15.7
1987	PPPCCPP--PP-	MANUAL	178	APR 2	1	JAN 14	178	APR 02	488	---	---	---

MANUAL - MANUAL SAMPLING

C - COMPLETE MONTH P - PARTIAL MONTH * - EXTREME FOR PERIOD OF RECORD

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GRANDE RIVIERE AT VIOLETTE BRIDGE	01AF007	8
HARRYS RIVER BELOW HIGHWAY BRIDGE	02YJ001	19
HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY	02ZA002	22
KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD	01DL001	33
KENNEBECASIS RIVER AT APOHAQUI	01AP004	8
NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN	01AL004	13
NORTH BROOK NEAR WALL ROAD	01CB005	38
NORTHEAST BROOK NEAR RODDICKTON	02YD002	23
SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE	01BD001	16
WATERFORD RIVER AT KILBRIDE	02ZM005	26
WILMOT RIVER NEAR WILMOT VALLEY	01CB004	42